



Bharath
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)

DEPARTMENT OF MANAGEMENT STUDIES

REGULATION 2020

LAB MANUAL

SUBJECT CODE: P20MBMJ19

SUBJECT NAME: WEB DESIGN

THIRD SEMESTER

M.B.A. – MASTER OF BUSINESS ADMINISTRATION

Prepared by

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BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
DEPARTMENT OF MANAGEMENT STUDIES
WEB DESIGN LAB

VISION

The Department of Management Studies, aspires to be a leading Management Institution with a passion for Academic Excellence, uncompromising Human Values and an abiding commitment for the development of Business and Society through excellence in grooming Leadership, Entrepreneurial Talent and Research.

MISSION

M1: To imbibe Entrepreneurial Culture through Curriculum, Pedagogy, Mentoring and foster excellence by providing Quality Education in Business Management.

M2: To cultivate the principles of Social Responsibility, Ethics and Spiritual Values among budding Managers.

M3: To build intellectual capabilities based on the twin pillars of Research & Innovation.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

PEO1 - Career Achievements – Our budding Managers will demonstrate their skills in solving challenges in the corporate world through the core foundation and knowledge acquired in Business Management.

PEO2 - Professionalism – Our budding Managers will exhibit leadership, make decisions with societal and ethical responsibilities, function and communicate effectively in multidisciplinary settings.

PEO3 - Life-long Learning – Our budding Managers will recognize the need for sustaining and expanding their Managerial competence and engage in learning opportunities throughout their careers.

PEO4 - SKILL- Our budding Managers will be trained for developing soft skills such as proficiency in many languages, Business communication, verbal, logical, analytical, comprehension, team building, inter personal relationship, group discussion and leadership skill to become a better professional.

PEO5 - ETHICS – Our budding Managers will apply the ethical and social aspects of modern Business with a sense of Corporate Social Responsibility.

PROGRAMME OUTCOMES (PO)

PO1: An Ability to apply conceptual foundations to solve practical decision – making problems.

PO2: An ability to develop a systematic understanding of changes in business environment.

PO3: An ability to function effectively in a team.

PO4: An ability to analyze a problem, and use the appropriate managerial skills for obtaining its solutions.

PO5: An ability to understand and analyze global, economic, legal and ethical aspects of business and apply them in organizational settings.

PO6: An understanding of professional integrity.

PO7: An ability to communicate effectively.

PO8: An ability to use information and knowledge effectively.

PO9: An awareness about the society.

PO10: An ability to use practical managerial analysis skills.

P20MBMJ19	WEB DESIGN LAB	L	T	P	C
	Total Contact Hours: 60	2	0	4	4
	Course Designed by: Mr Gowtham Aashirwad Kumar				
UNIT I Introduction to Java and Web Design12					
Introduction, World Wide Web, Web Browsers, Web Page, Introduction to Java and its Web Applications, Search Engines					
UNIT II Basic Web Page Development12					
HTML Basics- creating HTML document, Building a Web Page-Text and Image formatting- Adding links, Web Development Tools					
UNIT III Web Page Development with HTML12					
Introduction, HTML Table Structure-Basic HTML table tags-Formatting the table, Multimedia Files on a Web Page, Using a Form-Creating formatted lists, Using Frames in a Web Page					
UNIT IV Using JavaScript12					
Overview of JavaScript, Using JavaScript in a Web Page, Event Handlers, Benefits and Drawbacks of JavaScript.					
UNIT V Fundamentals of Excel12					
Creating Basic Work Books, Using Ranges, Creating Formulas, Columns & Rows, Formatting Worksheets, Pivot Tables.					
TOTAL: 60 PERIODS					

References:

1. HTML and CSS: Design and Build Websites, by Jon Duckett
2. Learning Web Design: A Beginner's Guide to HTML, CSS, JavaScript, and Web Graphics, by Jennifer Niederst Robbins

COURSE OVERVIEW

Dear Students,

This course is designed to start you on a path toward future studies in web development and design, no matter how little experience or technical knowledge you currently have. The web is a very big place, and if you are the typical internet user, you probably visit several websites every day, whether for business, entertainment or education. But have you ever wondered how these websites actually work? How are they built? How do browsers, computers, and mobile devices interact with the web? What skills are necessary to build a website? With almost 1 billion websites now on the internet, the answers to these questions could be your first step toward a better understanding of the internet and developing a new set of internet skills.

Chapter 1 introduces the reader to study about the Introduction, World Wide Web, Web Browsers, Web Page, Introduction to Java and its Web Applications, Search Engines

Chapter 2 provides students with a detailed overview of the HTML Basics- creating HTML document, Building a Web Page-Text and Image formatting-Adding links, Web Development Tools

Chapter 3 provides students with a overview of database management packages. It also contains a Introduction, HTML Table Structure-Basic HTML table tags-Formatting the table, Multimedia Files on a Web Page, Using a Form-Creating formatted lists, Using Frames in a Web Page.

Chapter 4 provides students with a overview of JavaScript, Using JavaScript in a Web Page, Event Handlers, Benefits and Drawbacks of JavaScript.

Chapter 5 provides students with a overview of Excel Creating Basic Work Books, Using Ranges. Creating Formulas, Columns & Rows, Formatting Worksheets, Pivot Tables

Course Objective

This course is designed to introduce the student to the tools and facilities of web design: page composition, HTML, JAVA SCRIPT, EXCEL web design and code validation. Students will use these software technologies together to produce web design projects.

Learning Outcomes

The student will be able to recollect the concepts of HTML and JavaScript that are vital in webpage development.

The student shall demonstrate knowledge of languages, mark up tags, and good coding practices commonly used to create web pages.

The student shall understand how to use HTML and JavaScript for basic web development.

The student will be able to apply a user-defined tags and JavaScript to the development and design of web sites.

The student shall analyze given assignment to select sustainable web development and design methodology and inspect user experience and usability issues related to web sites.

The student will be able to design a simple, functioning website using HTML and JavaScript.

The student shall develop a simple, functioning website using Chart and Pivot Tables.

EVALUATION PROCEDURE FOR EACH EXPERIMENT

S.No	Components	Marks
1.	Aim and Procedure	10
2.	Record Submissions	20
3.	Experimentation and Outputs	50
4.	Viva Voce	10
	Total	100

INTERNAL ASSESSMENT FOR LAB

S.No	Components	Marks
1.	Observation	25
2.	Executing the Program	50
3.	Internal Assessment Exams	25
	Total	100

LIST OF EXPERIMENTS

S.NO	PROGRAM NAMES	PAGE NO
1.	SIMPLE HTML PROGRAM	01
2.	RESUME	06
3.	TIME TABLE	14
4.	COLLEGE APPLICATION FORM	20
5.	FRAMES AND LINKS	27
6.	INSERTING IMAGES INTO TABLE USING JAVASCRIPT	32
7.	STARS IN RIGHT-ANGLED TRIANGLE IN JAVASCRIPT	38
8.	BACKGROUND COLOR CHANGES IN JAVASCRIPT	42
9.	TEMPERATURE CONVERTER	47
10.	IMAGE FILTERS	51
11.	CALCULATOR	55
12.	EXCEL BASICS	63
13.	CHARTS AND PIVOT TABLES	66

EX NO : 1

DATE :

SIMPLE HTML PROGRAM

AIM:

To create a webpage for our favorite personality using HTML.

ALGORITHM:

STEP 1: Start the program.

STEP 2: Open a new document

STEP 3: Using different tags like <HTML> <HEAD> <TITLE> <BODY> design the document.

STEP 4: Use for different passage.

STEP 5: Save and run the program.

/* SIMPLE HTML PROGRAM */

<HTM

<HEAD>

<TITLE>FAVOURITE PERSONALITY</TITLE>

</HEAD>

<BODY BGCOLOR=PINK>

<MARQUEE BGCOLOR=BLACK>

<H1><CENTER>FAVOURITE
PERSONLAITY</CENTER></H1></MARQUEE>

<HI><p><CENTER><FONT COLOR=RED FACE="GILL SANS
MT"TYPE=REGULAR>APJ ABDUL KALAM</HI></p>

<IMG SRC="[C:\Sridhar\hard disk recovery\mba notes\c\THIRD SEM PRACTICALS
WEB DESIGN\ex 1\APJ.jpg](C:\Sridhar\hard disk recovery\mba notes\c\THIRD SEM PRACTICALS
WEB DESIGN\ex 1\APJ.jpg)">

<H2>BORN</H2>15 OCT 1931</BR></CENTER>

<H2>ACHIEVEMENTS</H2>

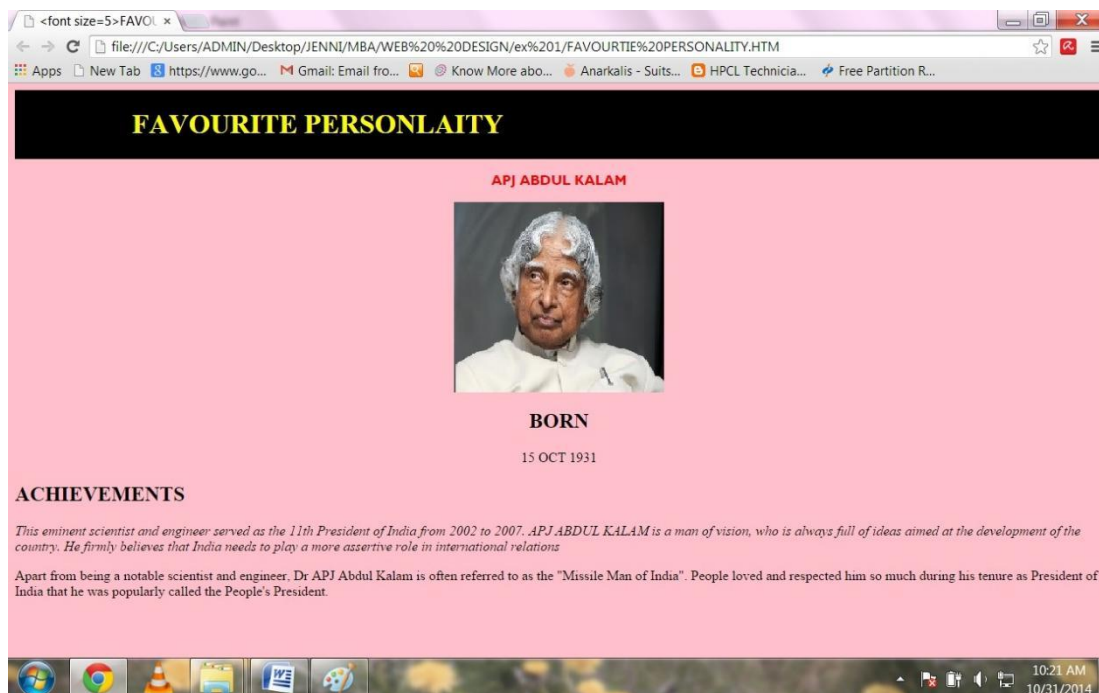
<I><P> This eminent scientist and engineer served as the 11th
President of India from 2002 to 2007. APJ ABDUL KALAM is a man of vision, who is
always full of ideas aimed at the development of the country. He firmly believes that
India needs to play a more assertive role in international relations</i></p>

<p>Apart from being a notable scientist and engineer, Dr APJ Abdul Kalam is often referred to as the "Missile Man of India". People loved and respected him so much during his tenure as President of India that he was popularly called the People's President.</p>

</body>

</HTML>

OUTPUT:



RESULT:

Thus the webpage for our favorite personality has been created successfully.

EX NO: 2

DATE :

HTML PROGRAM TO PREPARE RESUME

AIM:

To create a webpage for resume by using formatting text.

ALGORITHM:

STEP 1: Start the program.

STEP 2: Open a new document

STEP 3: Create a resume by using different HTML tags in notepad.

STEP 4: Use the tags like <TABLE> to create a table.

STEP 5: Use <TR> <TD> tags to enter the details in a row wise.

STEP 6: Save and run the program.

/* HTML PROGRAM TO PREPARE RESUME */

```
<HTML
>
  <HEAD><TITLE>RESUME</TITLE>

  </HEAD>
  <BODY>
    <CENTER><FONT
    COLOR=RED><H2><U>RESUME</U></H2></FONT></CENTER>

    <TABLE>
      <TR>
        <TD>
          <PRE>
            <H>
              <FONT COLOR=GREEN>
                NAME :-

                EMAIL ID :-
              </H>
            </PRE>
          </TD>

          <TD>
            <PRE>
              <H>
                <FONT COLOR=BLUE>
                  S SRIDHAR

                  sridharsonia@gmail.com
                </H>
              </PRE>
            </TD>
          </u>
        </table>

        <hr>
        <font color=fuchsia size=3>
        <blockquote><b><u>OBJECTIVE</U></B></BLOCKQUOTE>
```

<blockquote>

SEEKING A POSITION IN THE CORPORATE SECTOR WHERE I CAN EXPRESS MYSELF AND UTILIZE MY QUALIFICATIONS, EXPERTISE AND EXPERIENCE IN HRD NOT ONLY TO FURTHER MY CAREER BUT ALSO TO BENEFIT THE ORGANISATION THAT I WORK IN.

<HR>

<u>EDUCATION DETAILS</U>

<TABLE CELLPADDING=5 WIDTH="80%" BORDER=2>

<TR align="center">

<TH>DEGREE</TH>

<TH>Board/University</TH>

<TH>Percentage(<)/TH>

<TH>Division/Class</TH>

</tr>

<tr align="center">

<td>AIHSC</td>

<td>Tamilnadu Board</td>

<td>67</td>

<td>1stClass</td>

<tr align="center">

<td>PUC</td>

<td>Madras University</td>

<td>92</td>

<td>1stClass</td>

<tr align="center">

<td>BSc</td>

<td>Madras University</td>

<td>88</td>

<td>1stClass</td>

<tr align="center">

<td>MSc Physics</td>

<td>Bharathidasan University</td>

<td>68</td>

<td>1stClass</td>

<tr align="center">

<td>BEd Tech</td>

<td>Sagar University</td>

<td>72</td>

<td>1stClass</td>

<tr align="center">

<td>MSc Counselling</td>

<td>The Nagalan Open University</td>

<td>63</td>

<td>1stClass</td>

<tr align="center">

<td>MBA</td>

<td>Bharath University(Second Sem)</td>

<td>87</td>

<td>1stClass</td>

</tr>

</table>

<hr>

<u>PERSONAL DETAILS</u>

<TABLE>

<TR>

<TD><PRE>

Father's Name: -

Date of Birth:-

Age:-

</TD></PRE>

<TD><PRE>

V Srinivasamoorthy

12 Jul 1934

(late)

</TD></PRE>

</tr>

</table>

<U>MAILING ADDRESS</U></BR>

<ADDRESS>

<PRE>

20/2,ARMY CAMP,

PALLAVARAM

CHENNAI -43

</PRE></ADDRESS>

<U>PERMANENT ADDRESS</U></BR>

<ADDRESS>

<PRE>

32/2D5, POLICE STATION ROAD,

YERCAUD - 636601

SALEM DISTRICT, TAMILNADU

</PRE></ADDRESS>

<HR>

<U>HOBBIES</U>

1. READING

2. GRAPHIC DESIGN

3. PLAYING CHESS, SQUASH AND BADMINTON

4. RESEARCHING STOCK MARKET

<U>AREA OF INTEREST</U>

1. COUNSELLING

2. COMPUTER GRAPHIC DESIGN

3. HR MANAGEMENT, EVENT MANAGEMENT

<U>REFERENCE</U>

DR BRINDHA,

PROFESSOR,

BHARATH UNIVERSITY

MR BALAJI,

PROFESSOR,

BHARATH UNIIVERSITY

INDIAN ARMY

</BODY>

</HTML>

OUTPUT:



RESULT:

Thus the webpage for resume has been created successfully using HTML.

EX NO: 3

DATE :

HTML PROGRAM TO PREPARE TIME TABLE

AIM:

To create a time table using HTML.

ALGORITHM:

STEP 1: Start the program.

STEP 2: Open a new document

STEP 3: Create a TIME TABLE by using different HTML tags in notepad.

STEP 4: Use the tags like <TABLE> to create a table.

STEP 5: Use <TR> <TD> tags to enter the details in a row wise.

STEP 6: Save and run the program.

/*PROGRAM USING TABLES WITH COLSPAN AND ROWSPAN*/

```

<html>

  <body>
    <TITLE> TIME TABLE </TITLE>
    <head><h1><CENTER><U>DEPARTMENT OF
MBA</U></CENTER></H1></HEAD>

    <BODY BGCOLOR="YELLOW">
    <CAPTION><H2><CENTER>III SEMESTER CLASS TIME
TABLE</CENTER></H2></CAPTION>

    <TABLE BORDER=7 WIDTH="65%" ALIGN="CENTER">

    <TR ALIGN="CENTER">
    <TH WIDTH=55PX>DAYS/PERIOD</TH>
    <TH>1</TH>
    <TH>2</TH>
    <TH ROWSPAN="6">
T<BR>
E<BR>
A<BR><BR>

B<BR>
R<BR>
E<BR>
A<BR>
K</TH>
    <TH>3</TH>
    <TH>4</TH>
    <TH ROWSPAN="6">
L<BR>
U<BR>
N<BR>
C<BR>
H<BR><BR>
B<BR>
R<BR>
E<BR>
A<BR>
K</TH>
    <TH>5</TH>

```

```
<TH>6</TH>
<TH>7</TH>
</TR>
```

```
<TR ALIGN="CENTER">
<TD><B>MON</B></TD>
<TD>ERP</TD>
<TD>QM</TD>
<TD>RM</TD>
<TD>ESB</TD>
<TD>SM</TD>
<TD>SHRD</TD>
<TD>OD</TD>
</TR>
```

```
<TR ALIGN="CENTER">
<TD><B>TUE</B></TD>
<TD>ERP</TD>
<TD>QM</TD>
<TD>ESB</TD>
<TD>RM</TD>
<TD>SM</TD>
<TD>WEB DESIGN</TD>
<TD>WEB DESIGN</TD>
</TR>
```

```
<TR ALIGN="CENTER">
<TD><B>WED</B></TD>
<TD>ERP</TD>
<TD>QM</TD>
<TD>SM</TD>
<TD>OD</TD>
<TD>RD</TD>
<TD>ESB</TD>
<TD>SAP</TD>
</TR>
```

```
<TR ALIGN="CENTER">
<TD><B>THUR</B></TD>
<TD>QM</TD>
<TD>ERP</TD>
<TD>RD</TD>
```

```
<TD>ESB</TD>
<TD>SM</TD>
<TD>SHRD</TD>
<TD>OD</TD>
</TR>

<TR ALIGN="CENTER">
<TD><B>FRI</B></TD>
<TD>ERP</TD>
<TD>QM</TD>
<TD>SM</TD>
<TD>OD</TD>
<TD>SM</TD>
<TD>SHRD</TD>
<TD>SAP</TD>
</TR>

</TABLE>
</BODY>
</HTML>
```

OUTPUT:



DEPARTMENT OF MBA

III SEMESTER CLASS TIME TABLE

DAYS/PERIOD	1	2	T E A C H E R B R E A K	3	4	L U N C H B R E A K	5	6	7
MON	ERP	QM		RM	ESB		SM	SHRD	OD
TUE	ERP	QM		ESB	RM		SM	WEB DESIGN	WEB DESIGN
WED	ERP	QM		SM	OD		RD	ESB	SAP
THUR	QM	ERP		RD	ESB		SM	SHRD	OD
FRI	ERP	QM		SM	OD		SM	SHRD	SAP

RESULT:

Thus the webpage for time table has been created successfully using HTML.

EX NO: 4

DATE :

COLLEGE APPLICATION FORM

AIM:

To create a program to display list using HTML.

ALGORITHM:

STEP 1: Start the program.

STEP 2: Open a new document

STEP 3: Create a webpage using HTML in notepad.

STEP 4: Create a new html file using FORM design and save it.

STEP 5: Again Create a new html file for home page.

STEP 6: Save and run the program.

/*PROGRAM TO CREATE APPLICATION FORM USING FORM DESIGN*/

Home.html

```
<html>
  <body>
  <head>

  <title>SIMPLE LIST</title>

  <head>
  <body bgcolor="#ccccdda">

  <font color=red size=50 face="arial">

  <bgcolor="black"><center>BHARATH UNIVERSITY</CENTER></FONT>
  <p><center>
  (Established under Section 3 of the UGC Act, 1956)<br>
  Selaiyur, Chennai - 73
  </center>
  </p>
  <center></center><br>
  <font color="red size="50" face="arial"><br><br>
  <center><form>
  <input type="button" onClick="parent.location='application.html'"
  value="application form">
  </a>
  </center>
  </body>
</html>
```

Application.html

<html>

<head>

<title>Application Form</title>

</head>

</center>

<body bg color="" ccaaff">

<center>Bharath
University</center>

<h1><CENTER>APPLCIATION
FORM</CENTER></H1>

<FORM METHOD="POST">

<P>

<LABEL> NAME :

<INPUT TYPE="TEXT" NAME="PNAME"
SIZE="25"></LABEL>

<LABEL>PARENT/GUARDIAN NAME :

<INPUT TYPE="TEXT" NAME="PNAME"
SIZE="25"></LABEL>

<LABEL>D.O.B. :

<INPUT TYPE="TEXT" NAME="D.O.B"
SIZE="25"></LABEL>

<LABEL>NATIONALITY :

<INPUT TYPE="TEXT" NAME="PNAME" SIZE="25" TEXT WRAP="5"
ROW="7"></LABEL>

<LABEL>ADDRESS :

<INPUT TYPE="TEXT ACRA" NAME="ADDRESS"
SIZE="25"></LABEL>

<P><LABEL>SEX :
 <INPUT TYPE="RADIO" NAME="MALE">MALE
 <INPUT TYPE="RADIO" NAME="FEMALE">FEMALE</LABEL></P>

<P>QUALIFICATION AND MARKS OBTAINED
 <TABLE BORDER=2 CELLPADDING=2 WIDTH="50%">
 <TR><TH><QUALIFICATION</TH>
 <TH>BOARD/UNIVERSITY</TH>
 <TH>PERCENTAGE OF MARKS</TH>
 <TR><TD>X</TD>

<TD><INPUT TYPE="TEXT" NAME="U1" SIZE="25"></TD>

<TD><INPUT TYPE="TEXT" NAME="M1" SIZE="25"></TD>

<TR><TD>XII</TD>

<TD><INPUT TYPE="TEXT" NAME="U2" SIZE="25"></TD>

<TD><INPUT TYPE="TEXT" NAME="M2" SIZE="25"></TD>

<TR><TD>DIPLOMA</TD>

<TD><INPUT TYPE="TEXT" NAME="U3" SIZE="25"></TD>

<TD><INPUT TYPE="TEXT" NAME="M3" SIZE="25"></TD>

<TR><TD>DEGREE</TD>

<TD><INPUT TYPE="TEXT" NAME="U4" SIZE="25"></TD>

<TD><INPUT TYPE="TEXT" NAME="M4" SIZE="25"></TD>

</TD></TR></TABLE>

<P><CENTER>U.G. COURSES :

 Select the course you want to apply for :
 <option>CSE
 <option>EEE
 <option>ECE
 <option>Mech
 <option>Civil

```
<option>E&I
</select></center>
```

```
<P><CENTER>P.G. COURSES :<BR>
```

Select the course you want to apply for :

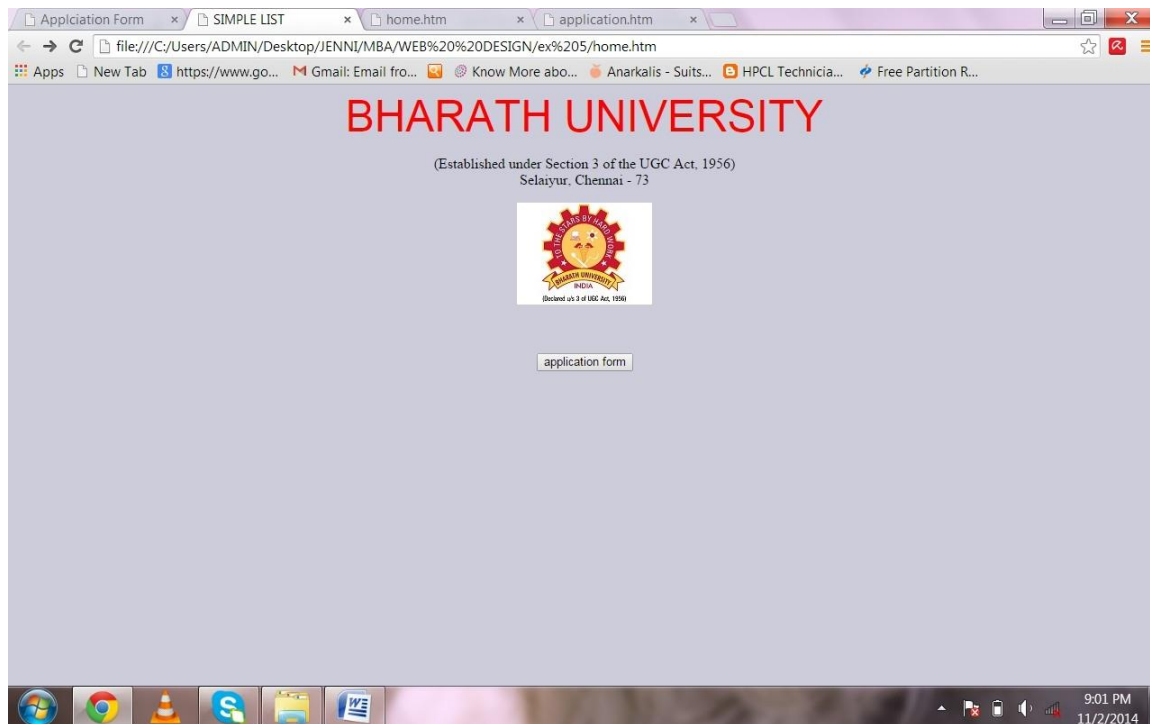
```
<option>CSE
<option>EEE
<option>ECE
<option>Mech
<option>Civil
<option>E&I
<option>MCA
<option>MBA
</select></center><br>
```

```
<center><br><br><br><br><input type="submit" value="submit">
<input type="reset" value="clear"></center><br>
```

```
<center>
<input type="button" onclick="location.href='home.htm'" value="home">
</center>
</body>
```

```
</html>
```

OUTPUT:



Bharath University
APPLCIATION FORM

NAME :

PARENT/GUARDIAN NAME :

D.O.B :

NATIONALITY :

ADDRESS :

SEX : ☒ MALE ☐ FEMALE

QUALIFICATION AND MARKS OBTAINED	
BOARD UNIVERSITY	PERCENTAGE OF MARKS
X	
XII	
DIPLOMA	
DEGREE	

U.G. COURSES :
Select the course you want to apply for :
☐ CSE
☐ EEE
☐ ECE
☐ Mech
☐ Civil
☐ E&I

P.G. COURSES :
Select the course you want to apply for :
☐ CSE
☐ EEE
☐ ECE
☐ Mech
☐ Civil
☐ E&I
☐ MCA
☐ MBA

RESULT:

Thus the program using forms has been created and executed correctly and the outputs are verified.

EX NO : 5

FRAMES AND LINKS

DATE :

AIM:

To create a program to display the mobile store with frames and links.

ALGORITHM:

STEP 1: Start the program.

STEP 2: Open a new document

STEP 3: Create a webpage using HTML in notepad.

STEP 4: Create a new html file using frames and save it.

STEP 5: Again create a new html file for home page using links.

STEP 6: Create a new html file for using lists.

STEP 7: Save and run the program.

/*PROGRAM USING FRAMES AND LINKS*/

Frames.html

```
<html>
<HEAD>
<TITLE>FRAME</TITLE>
</HEAD>

<frameset rows="15%,80%">
<frame name=top src="mobile.html">
<frameset cols="25%,*">
<frame name=left src="link.html">
<frame name=right>
</frameset>
</frameset>
</html>
```

Mobile.html

```
<html>
<head>
<title>THE MOBILE STORE</TITLE></HEAD>

<BODY BGCOLOR="BLACK">

<FONT COLOR="RED" SIZE="15" STYLE="BOLD ITALIC"
FACE="ARIAL"><CENTER>THE MOBILE STORE</CENTER>

</FONT>
</BODY>
</HTML>
```

Link.html

```
<html>
<head>
<title>MOBILES</title>
</head>

<body bgcolor="yellow">
<ol type=A>
<li><a href="black.html" target=right>BLACKBERRY</A>
<li><a href="lava.html" target=right>LAVA</A>
<li><a href="nokia.html" target=right>NOKIA</A>
<li><a href="htc.html" target=right>HTC</A>

</ol>
</body>
</html>
```

Black.html

```
<html>
<head>
<title>BLACKBERRY</title>
</head>

<body bgcolor="#aaccdd">
<table border=2 align="centre" width="30%">
<ul type="square">
<caption>BLACKBERRY MODEL</CAPTION>
<TR ALIGN="CENTER">
<TD><li>8220</td></tr>
<tr align="center">

<td><li>pertflip</td></tr>
<tr align="center">
<td><li>8330</td></tr>
</table>
</body>
</html>
```

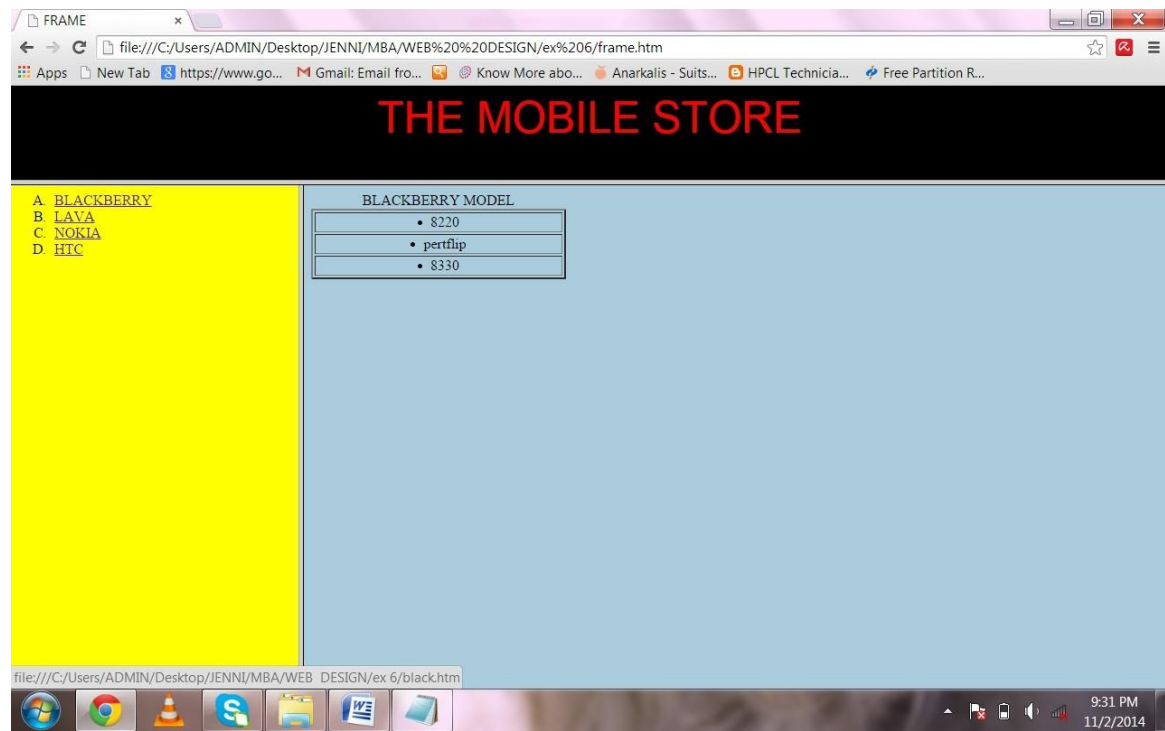
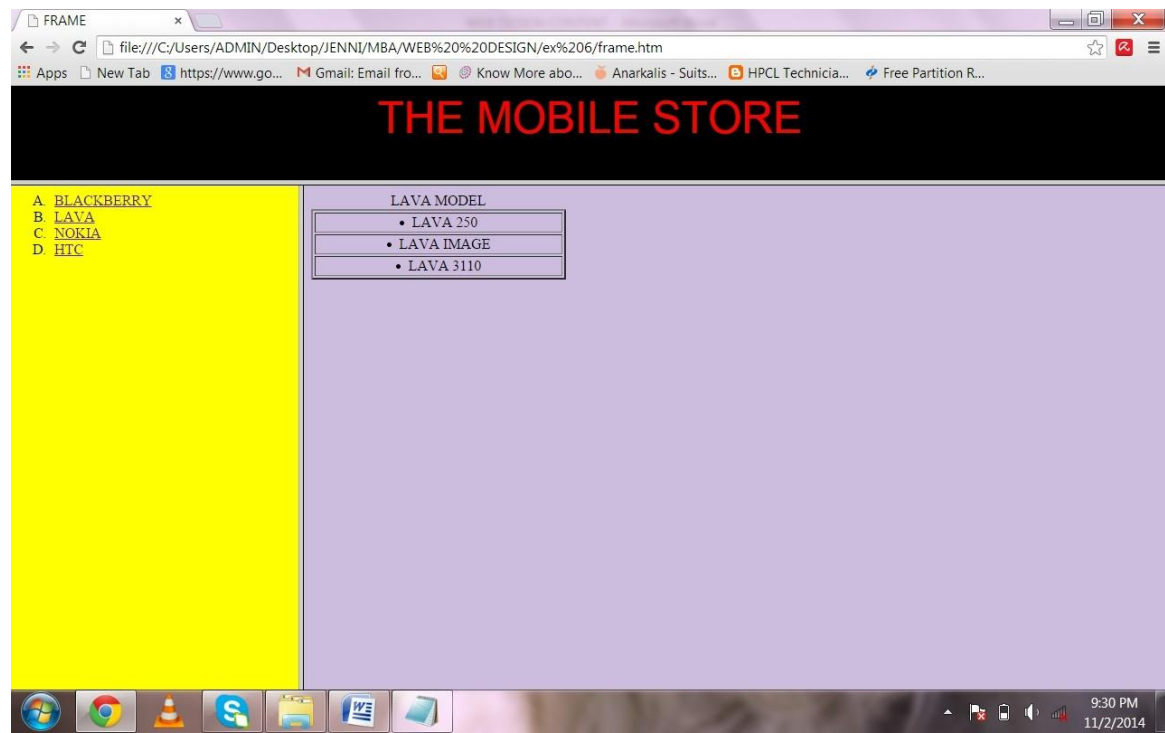
Lava.html

```
<html>
<head>
<title>LAVA</title>
</head>

<body bgcolor="#ccbbdd">
<table border=2 align="centre" width="30%">
<ul type="disc">
<caption>LAVA MODEL</CAPTION>
<TR ALIGN="CENTER">
<TD><li>LAVA 250</td></tr>
<tr align="center">

<td><li>LAVA IMAGE</td></tr>
<tr align="center">
<td><li>LAVA 3110</td></tr>
</table>
</body>
</HTML>
```

OUTPUT:



RESULT:

Thus the webpage using frames and links has been created and executed successfully.

EX. NO : 6

INSERTING IMAGES INTO TABLE USING JAVASCRIPT

DATE :

AIM:

To create a program to display the table with images using javascript

ALGORITHM:

STEP 1: Start the program.

STEP 2: Open a new document

STEP 3: Create a JavaScript file with the extension of .js and save it.

STEP 4: Create a new html file using tables and embed the JavaScript file with HTML file.

STEP 5: In JavaScript file, define all the properties for the tables in cascading style sheet

STEP 6: Save and run the program.

/*TIC-TAC-TOE PROGRAM USING JAVASCRIPT*/

```
<html>
  <head>
    <title>Tic Tac Toe</title>
    <meta name="viewport" content="width=600px" />
    <link rel="stylesheet" href="main.css" type="text/css">
    <script src="main.js" type="text/javascript"></script>
  </head>
  <body onload="init();">
    <div id="players">
      <div id="X" class="">Player X</div>
      <div id="O" class="">Player O</div>
      <input type="button" class="button" value="New Game">
    </div>
    <table>
      <tr>
        <td id="0"></td>
        <td id="1"></td>
        <td id="2"></td>
      </tr>
      <tr>
        <td id="3"></td>
        <td id="4"></td>
        <td id="5"></td>
      </tr>
      <tr>
        <td id="6"></td>
        <td id="7"></td>
        <td id="8"></td>
      </tr>
    </table>
  </body>
</html>
```

JAVASCRIPT FILE (Main.js)

```
body {  
  text-align: center;  
  font-size: 16px;  
  font-family: 'Comic Sans MS', Helvetica, sans-serif;  
}
```

```
table {  
  margin-left:auto;  
  margin-right:auto;  
  width: 551px;  
  -webkit-user-select: none;  
}
```

```
td {  
  height: 175px;  
  width: 175px;  
  text-align: center;  
  font-size: 120px;  
  border: 2px solid #cccccc;  
  -webkit-border-radius: 10px;  
}
```

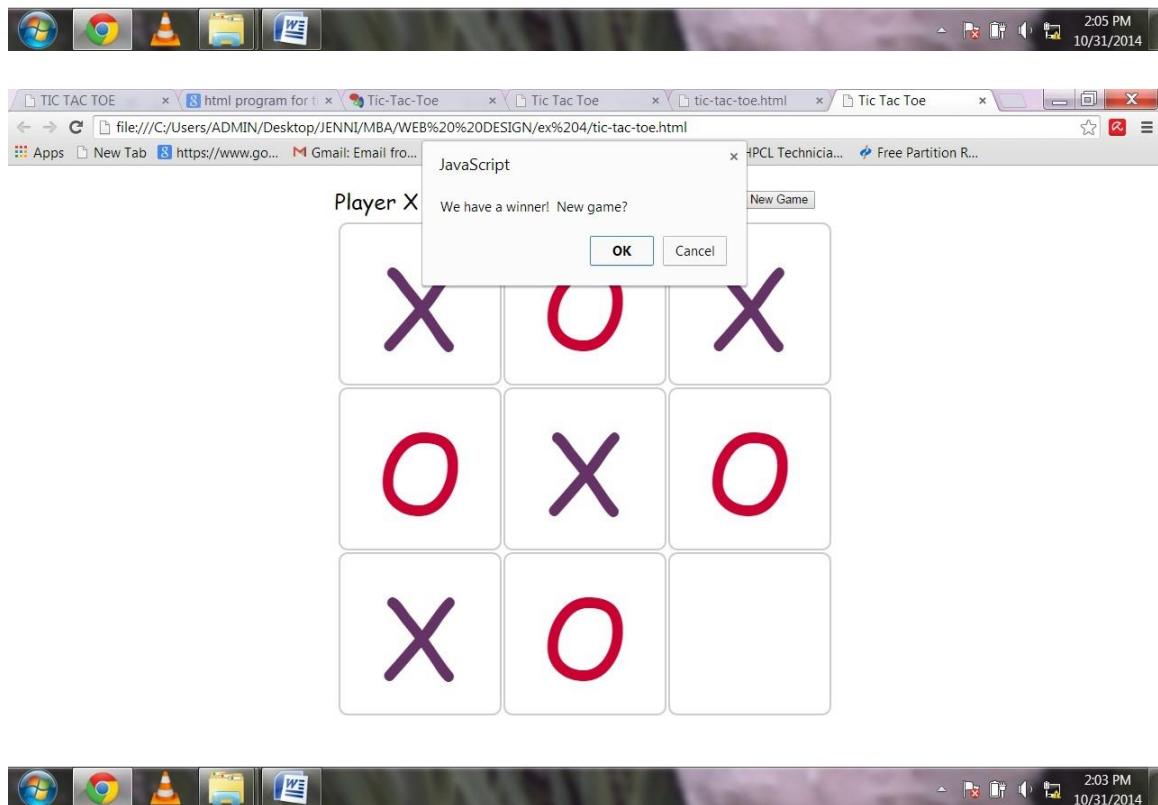
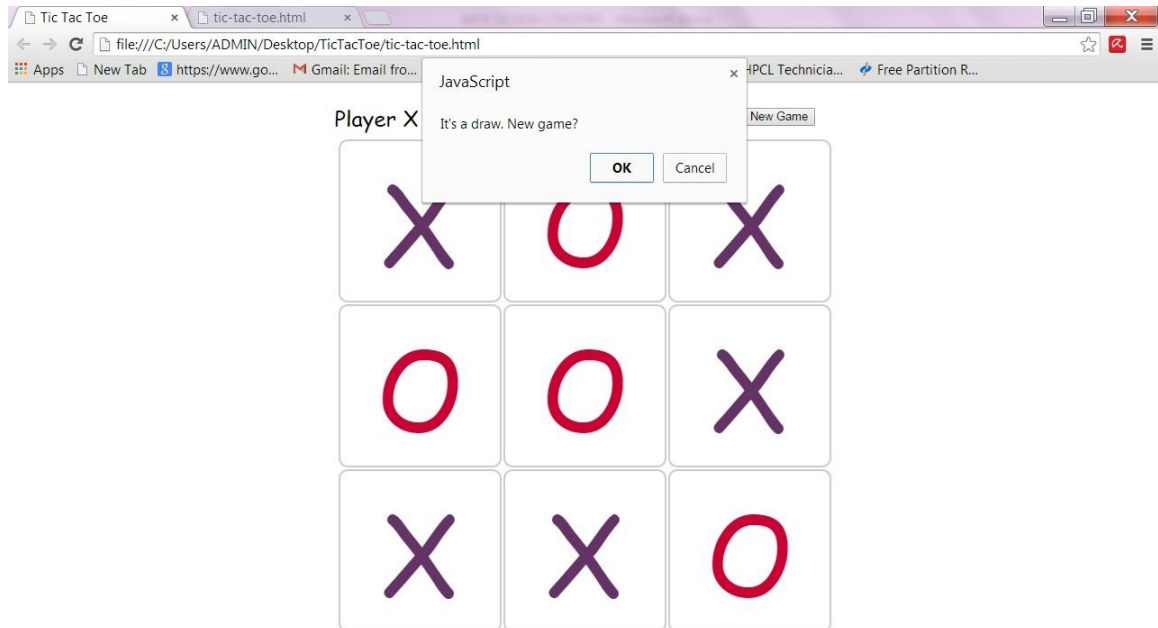
```
#players {  
  margin-left:auto;  
  margin-right:auto;  
  padding: 20px 10px 10px 10px;  
  width: 511px;  
  text-align: left;  
}
```

```
#players > div {  
  display: inline-block;  
  padding-right: 25px;  
  color: #cccccc;  
  -webkit-transition-duration: 200ms;  
}
```

```
.  
button {  
  float: right;  
}  
.current-player {  
  color: black !important;  
  -webkit-transform: scale(1.5);  
}  
.X-marker  
{
```

```
    color: #663366;
}
.X-marker:before {
    content: "X";
}
.O-marker {
    color: #CC0033;
}
.O-marker:before {
    content: "O";
}
```

OUTPUT:



RESULT:

Thus the program has been created and executed correctly using JavaScript and the outputs are verified.

EX NO : 7

STARS IN RIGHT-ANGLED TRIANGLE USING JAVASCRIPT

DATE :

AIM:

To create a webpage to print stars in right-angled triangle using JavaScript.

ALGORITHM:

STEP 1: Start the program.

STEP 2: Open a new document

STEP 3: Create a home page using HTML in notepad and save it.

STEP 4: Create a new JavaScript file with the extension of .js and save it.

STEP 5: Embed the JavaScript file with HTML file.

STEP 6: In JavaScript file, define all the properties to print stars in right-angled triangle.

STEP 6: Save and run the program.

/* STARS IN RIGHT-ANGLED TRIANGLE USING JAVASCRIPT */

Star.html

```
<html>
<head>
  <title>STAR TRIANGLE</title>
<body bgcolor="violet">

<h3><center>STAR IN TRIANGLE SHAPE</center></h3>
  <script src="stars.js"></script>
</head>

<body>

<script>
  function main() {
    var input

    input = parseInt(prompt("Input the number of stars."), 10)
    if (input > 0 || input !== 'NaN') triangle(input)
  }

  main()
</script>

</body>
</html>
```

JAVASCRIPT FILE Stars.js

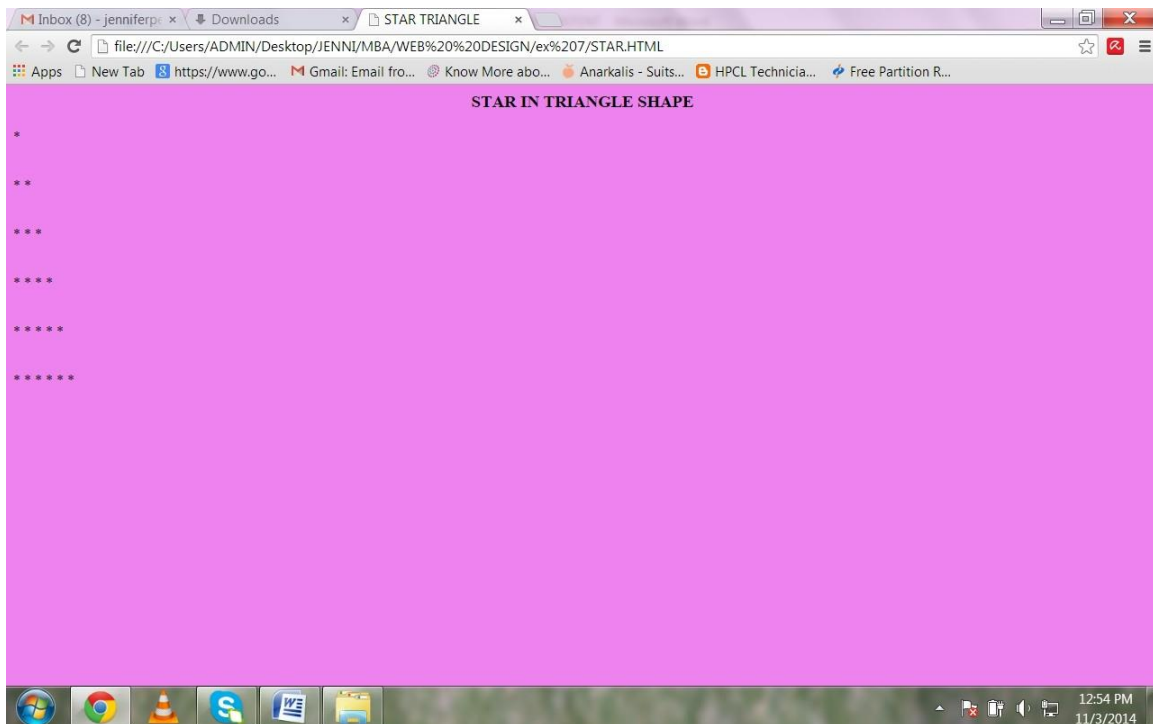
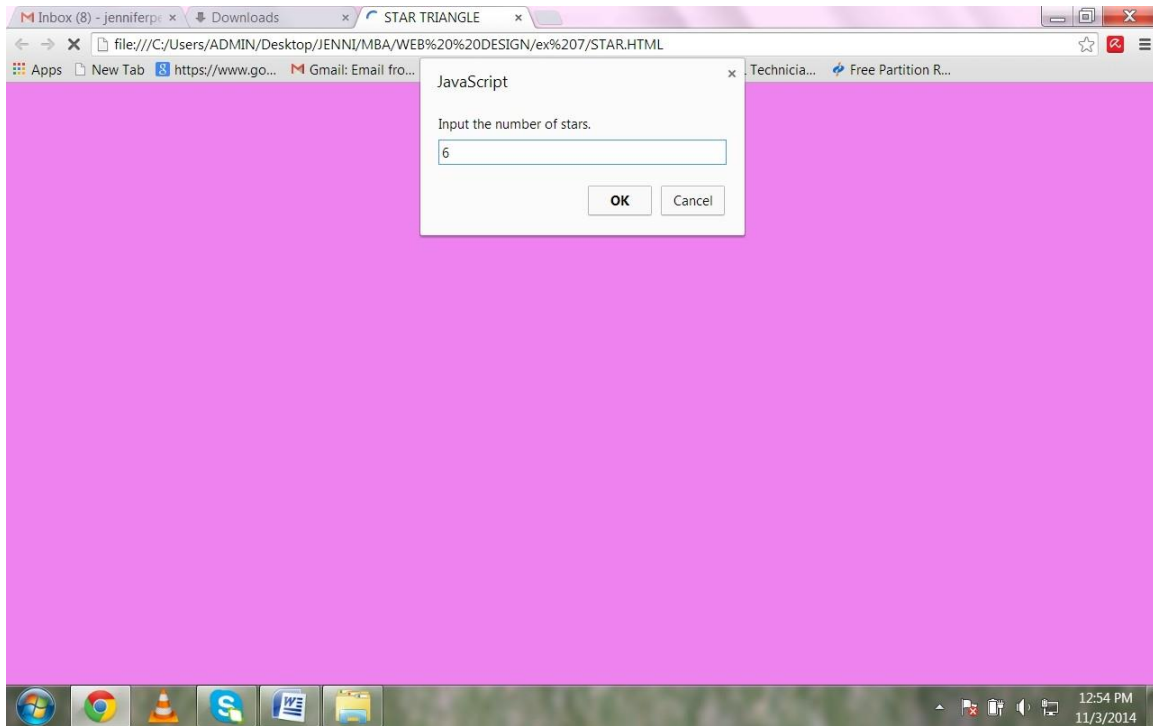
```
function stars(num) {
  var output = ""

  while (num-->0) output += ' * '
  output += "\n\n"
  return output
}

function triangle(number) {
  var output = "",
      i

  for (i = 0; i < number; i++) output += stars(i + 1)
  document.write(output)
}
```

OUTPUT:



RESULT:

Thus the program has been created and executed correctly using JavaScript and the outputs are verified.

EX NO:8

BACKGROUND COLOR CHANGES

DATE :

AIM:

To create a webpage to change background color using buttons in JavaScript.

ALGORITHM:

STEP 1: Start the program.

STEP 2: Open a new document

STEP 3: Create a webpage using HTML and JavaScript in notepad.

STEP 4: Create a button using <button type> tag.

STEP 5: Change the background color using click function.

STEP 6: Create a call function to change the background color when you click the button

STEP 6: Save and run the program.

/*BACKGROUND COLOR CHANGES USING JAVASCRIPT*/

```
<html>
  <head>
    <title>BG COLOR</title>
    <scriptlanguage="javascript">
    </script>
  </head>

  <body bgcolor="#E6E6FA">
    <formname="change">

    <center><table align="center" width="80%" height="70%">
      <p>
      <tr align="center">
        <td>
          <font align="center" size="5" face="verdana" color="orange">
            click to change the background color : <br><br></td></tr></center>

          <form name="changecolor">
            <tr align="center">
              <td>
                <button type="button" onclick="myFunction()">RED</button>
                <button type="button" onclick="myFunction1()">GREEN</button>
                <button type="button" onclick="myFunction2()">BLUE</button>
                <button type="button" onclick="myFunction3()">BLACK</button>
              <script>
                function myFunction() {
                  document.body.style.backgroundColor = "red";
                }

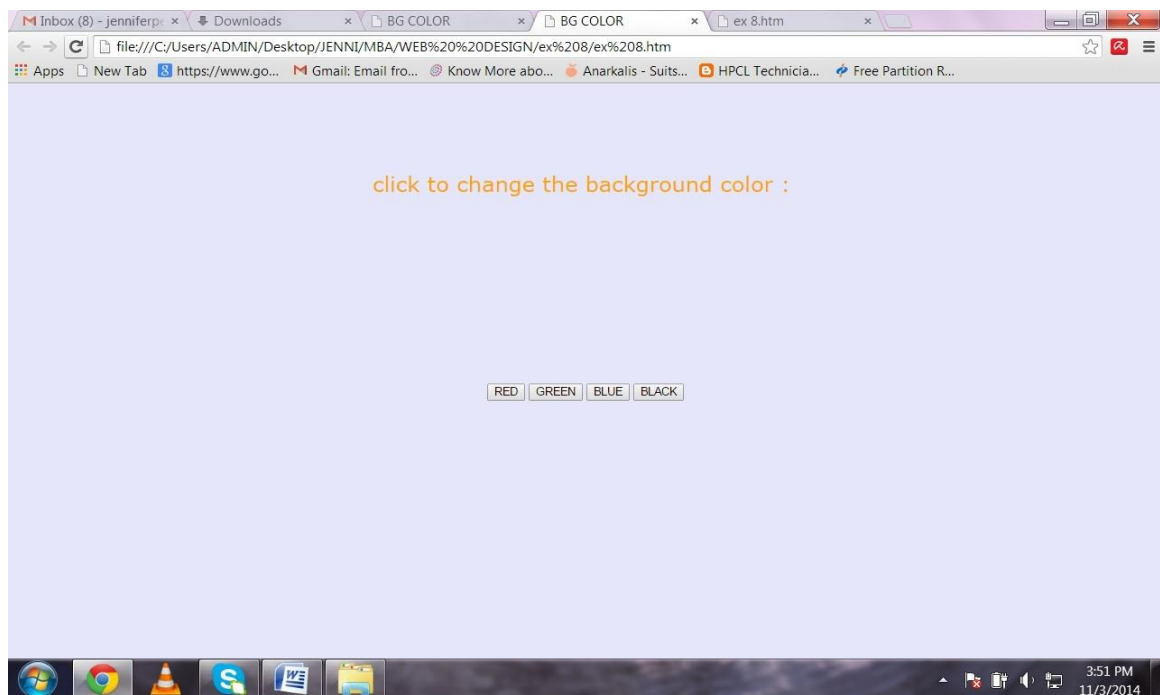
                function myFunction1() {
                  document.body.style.backgroundColor = "green";
                }

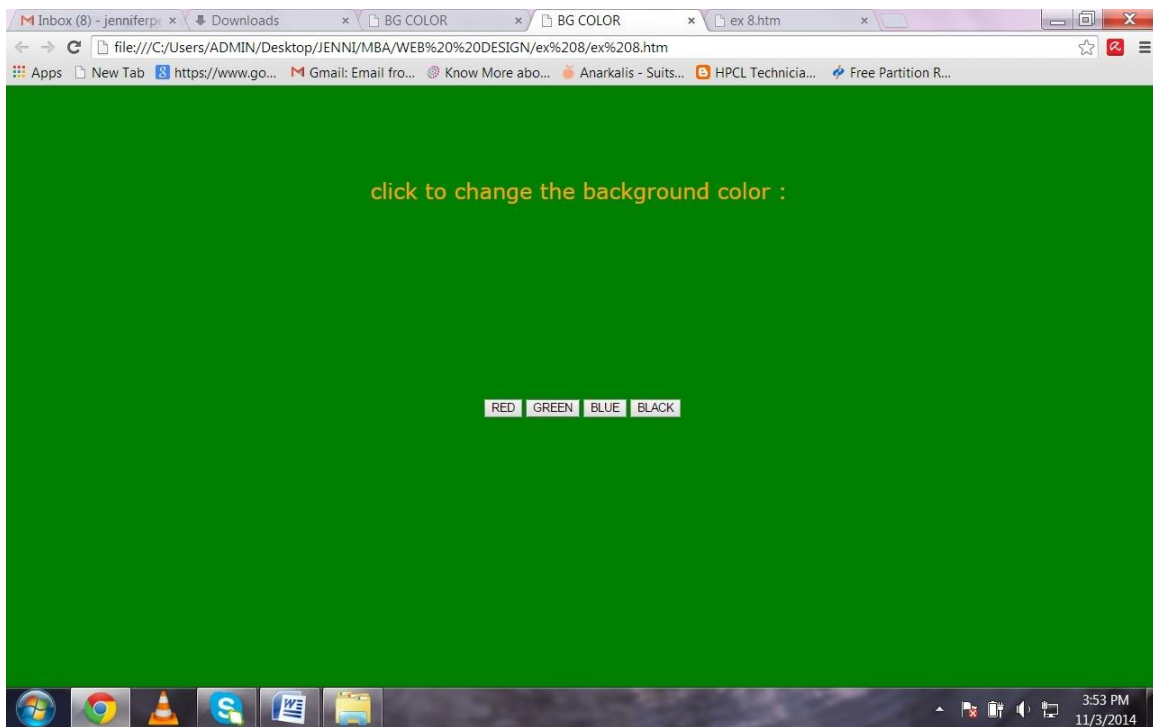
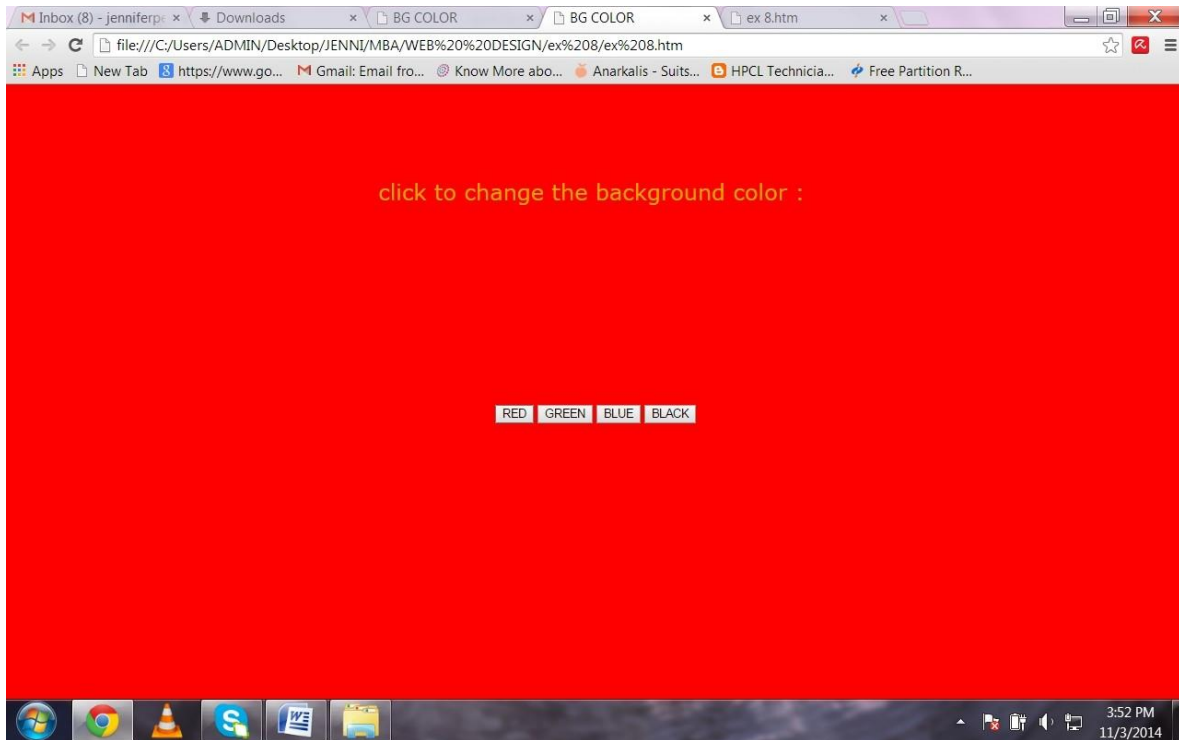
                function myFunction2() {
                  document.body.style.backgroundColor = "Blue";
                }

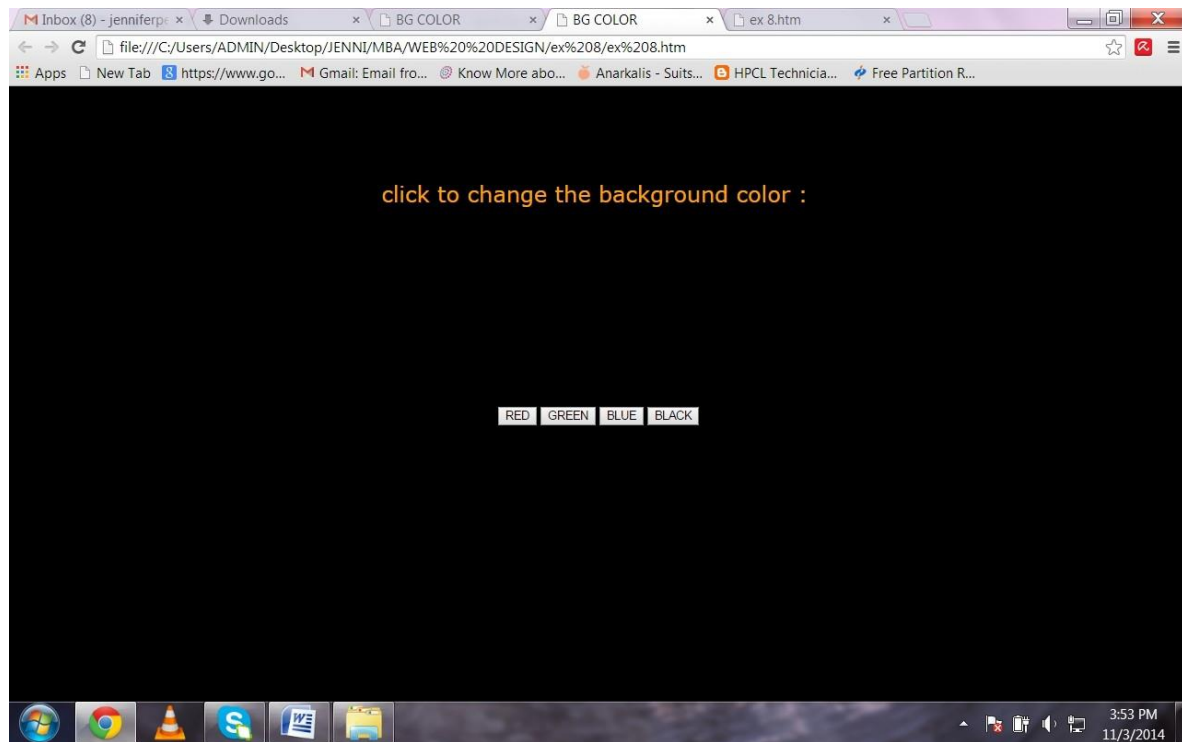
                function myFunction3() {
                  document.body.style.backgroundColor = "BLACK";
                }
              </script>
            </td></tr>
```

```
</font>
</p>
</form>
</table>
</body>
</html>
```

OUTPUT:







RESULT:

Thus the webpage to change the background color has been created successfully.

EX NO: 9

DATE :

TEMPERATURE CONVERTER

AIM:

To create a webpage to convert Celsius to Fahrenheit.

ALGORITHM:

STEP 1: Start the program.

STEP 2: Open a new document

STEP 3: Create a webpage using HTML and JavaScript in notepad.

STEP 4: Create a call function to use mathematical calculations to convert the Celsius to Fahrenheit.

STEP 5: Save and run the program.

/*TEMPERATURE CONVERTER*/

```
<html>

  <head>
    <title>Temperature Convertor</title>
  </head>

  <body bgcolor="pink">

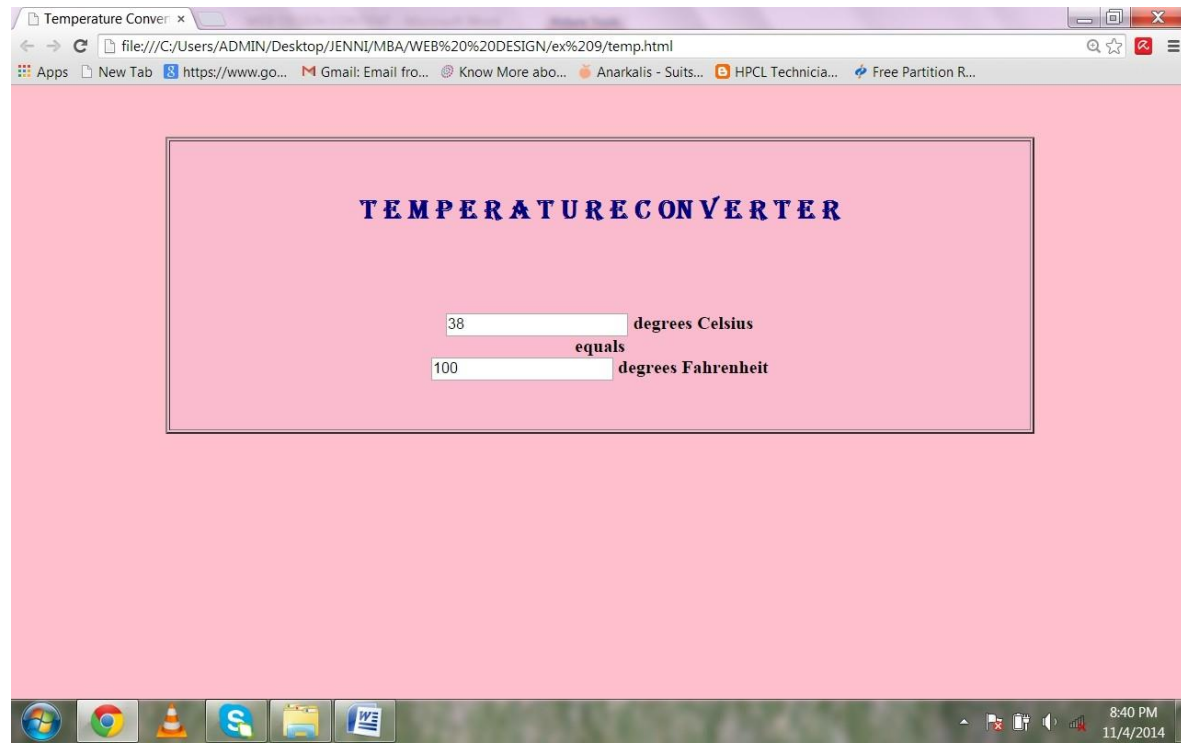
    <br><br>
    <table border=2 width="75%" height="50%" align=center bgcolor="#faabbccf">
      <tr><th>
        <center><font color=#000080 size=5 face="ALGERIAN">
          T E M P E R A T U R E C O N V E R T E R</font><br><br><br><br><br>

        <script>
          function convert(degree) {
            if (degree == "C") {
              F = document.getElementById("c").value * 9 / 5 + 32;
              document.getElementById("f").value = Math.round(F);
            } else {
              C = (document.getElementById("f").value - 32) * 5 / 9;
              document.getElementById("c").value = Math.round(C);
            }
          }
        </script>
        <center>
          <input id="c" onkeyup="convert('C')"> degrees Celsius<br>
          equals<br>
          <input id="f" onkeyup="convert('F')"> degrees Fahrenheit
        </center>
      </th></tr>
    </table>

  </body>

</html>
```

OUTPUT:



RESULT:

Thus the program has been created and executed correctly using JavaScript and the outputs are verified.

EX NO:10

DATE :

IMAGE FILTERS

AIM:

To create a HTML programs for image filters.

ALGORITHM:

STEP 1: Start the program.

STEP 2: Open a new document

STEP 3: Create a webpage using HTML in notepad.

STEP 4: In the style attribute, give the image filter types like grayscale, invert or xray.

STEP 5: Save and run the program.

/*IMAGE FILTERS */

```
<html>

  <head>

    <title>IMAGE FILTERS</title>

    <style type="text/css">

      .cap{font-weight:bold; background-color:yellow; text align:center}

    </style>
  </head>

  <body bgcolor="pink">

    <h1 align="center">Filters</h1>

    <table class="cap" align="center">
      <tr>
        <td>Normal</td>
        <td>Grayscale</td>
      </tr>

      <tr>
        <td></td>

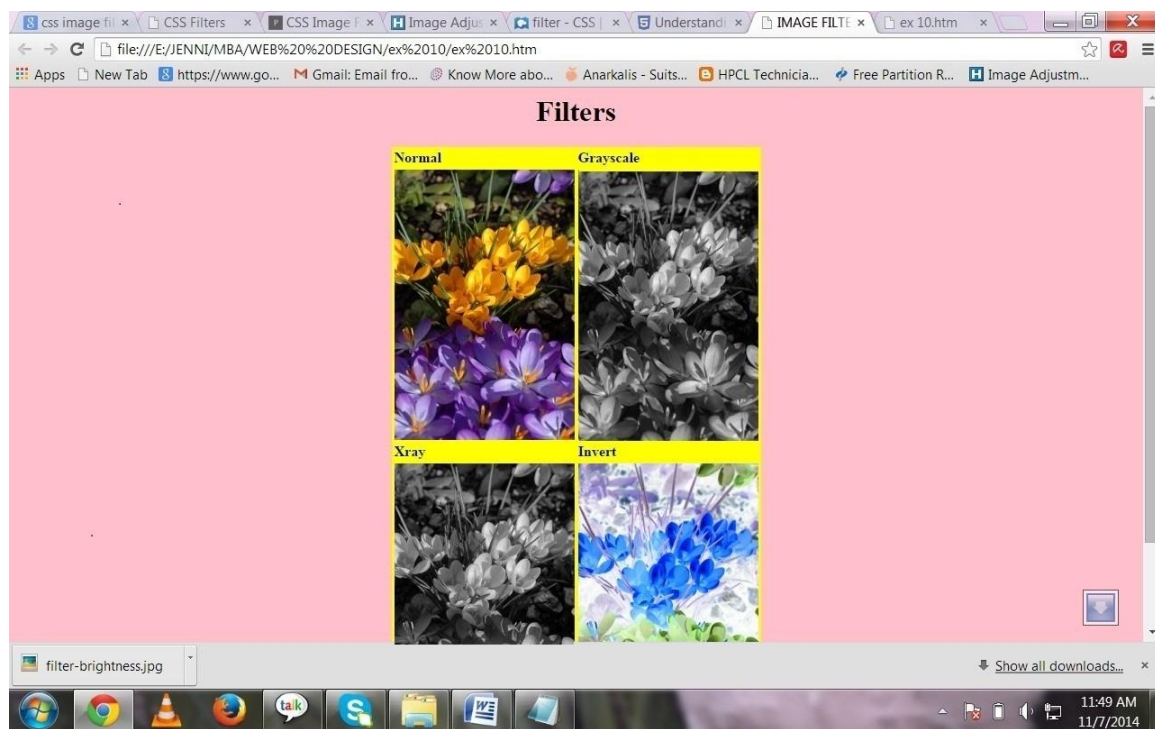
        <td></td>
      </tr>

      <tr>
        <td>Xray</td>
        <td>Invert</td>
      </tr>

      <tr>
        <td></td>
        <td></td>
      </tr>
    </table>
  </body>
</html>
```

```
</tr>
</table>
</body>
</html>
```

OUTPUT:



RESULT:

Thus the filtering of image has been done and executed correctly and the outputs are verified.

EX NO:11

DATE :

CALCULATOR

AIM:

To create a webpage to display the calculator.

ALGORITHM:

STEP 1: Start the program.

STEP 2: Open a new document

STEP 3: Create a webpage using HTML and JavaScript in notepad.

STEP 4: Create a table to input the number.

STEP 5: Use input tag to insert button for click.

STEP 6: Inside script tag, give the appropriate action for the symbols like +,-,*,/

STEP 7: Create a function call to do the operation based on the input given.

STEP 8: Save and run the program.

/*CALCULATOR*/

```
<html>
  <head>
    <title>CALCULATOR</TITLE>
    <body bgcolor="pink" text=red>
      <center>

        <table border=4>
          <tr>
            <th>
              <input type=text name=t1 style=text-align:center value=CASIO size=17 style=text-
                color:green></th></tr>
            <FORM name="Keypad" action="">
              <TABLE>
                <B>
                  <TABLE border=2 width=50 height=60 cellpadding=1 cellspacing=5>
                    <TR>
                      <TD colspan=3 align=middle>
                        <input name="ReadOut" type="Text" size=24 value="0" width=100%>
                      </TD>
                      <TD>
                      </TD>
                      <TD>
                        <input name="btnClear" type="Button" value=" C " onclick="Clear()">
                      </TD>
                      <TD><input name="btnClearEntry" type="Button" value=" CE "
                        onclick="ClearEntry()">
                      </TD>
                    </TR>
                    <TR>
                      <TD>
                        <input name="btnSeven" type="Button" value=" 7 " onclick="NumPressed(7)">
                      </TD>
                      <TD>
                        <input name="btnEight" type="Button" value=" 8 " onclick="NumPressed(8)">
                      </TD>
                      <TD>
                        <input name="btnNine" type="Button" value=" 9 " onclick="NumPressed(9)">
                      </TD>
```

```

<TD>
</TD>
<TD>
<input name="btnNeg" type="Button" value=" +/- " onclick="Neg()">
</TD>
<TD>
<input name="btnPercent" type="Button" value=" % " onclick="Percent()">
</TD>
</TR>
<TR>
<TD>
<input name="btnFour" type="Button" value=" 4 " onclick="NumPressed(4)">
</TD>
<TD>
<input name="btnFive" type="Button" value=" 5 " onclick="NumPressed(5)">
</TD>
<TD>
<input name="btnSix" type="Button" value=" 6 " onclick="NumPressed(6)">
</TD>
<TD>
</TD>
</TD>
<TD align="middle"><input name="btnPlus" type="Button" value=" + "
onclick="Operation('+)">
</TD>
<TD align="middle"><input name="btnMinus" type="Button" value=" - "
onclick="Operation('-)">
</TD>
</TR>
<TR>
<TD>
<input name="btnOne" type="Button" value=" 1 " onclick="NumPressed(1)">
</TD>
<TD>
<input name="btnTwo" type="Button" value=" 2 " onclick="NumPressed(2)">
</TD>
<TD>
<input name="btnThree" type="Button" value=" 3 " onclick="NumPressed(3)">
</TD>
<TD>
</TD>
</TD>
<TD align="middle"><input name="btnMultiply" type="Button" value=" * "
onclick="Operation('*)">

```

```

</TD>
<TD align=middle><input name="btnDivide" type="Button" value=" / "
onclick="Operation('/')">
</TD>
</TR>
<TR>
<TD>
<input name="btnZero" type="Button" value=" 0 " onclick="NumPressed(0)">
</TD>
<TD>
<input name="btnDecimal" type="Button" value=" . " onclick="Decimal()">
</TD>
<TD colspan=3>
</TD>
<TD>
<input name="btnEquals" type="Button" value=" = " onclick="Operation('=)">
</TD>
</TR>
</TABLE>
</TABLE>
</B>
</FORM>
</CENTER>
<font face="Verdana, Arial, Helvetica" size=2>
<SCRIPT LANGUAGE="JavaScript">
<!-- Begin
var FKeyPad = document.Keypad;
var Accumulate = 0;
var FlagNewNum = false;
var PendingOp = "";
function NumPressed (Num) {
if (FlagNewNum) {
FKeyPad.ReadOut.value = Num;
FlagNewNum = false;
}
else {
if (FKeyPad.ReadOut.value == "0")
FKeyPad.ReadOut.value = Num;
else
FKeyPad.ReadOut.value += Num;
}
}
}

```

```

function Operation (Op) {
var Readout = FKeyPad.ReadOut.value;
if (FlagNewNum && PendingOp != "");
else
{
FlagNewNum = true;
if ( '+' == PendingOp )
Accumulate += parseFloat(Readout);
else if ( '-' == PendingOp )
Accumulate -= parseFloat(Readout);
else if ( '/' == PendingOp )
Accumulate /= parseFloat(Readout);
else if ( '*' == PendingOp )
Accumulate *= parseFloat(Readout);
else
Accumulate = parseFloat(Readout);
FKeyPad.ReadOut.value = Accumulate;
PendingOp = Op;
}
}

function Decimal () {
var curReadOut = FKeyPad.ReadOut.value;
if (FlagNewNum) {
curReadOut = "0.";
FlagNewNum = false;
}
else
{
if (curReadOut.indexOf(".") == -1)
curReadOut += ".";
}
FKeyPad.ReadOut.value = curReadOut;
}

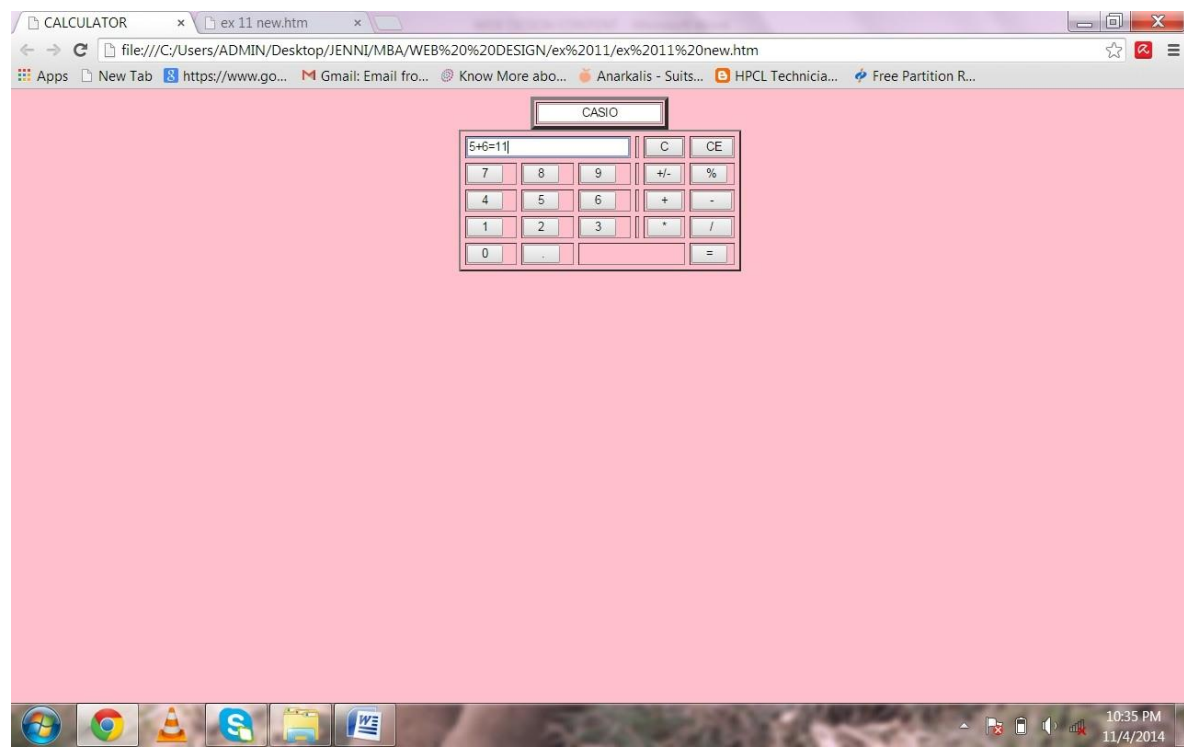
function ClearEntry () {
FKeyPad.ReadOut.value = "0";
FlagNewNum = true;
}

function Clear () {
Accumulate = 0;
PendingOp = "";
ClearEntry();
}

```

```
function Neg () {  
FKeyPad.ReadOut.value = parseFloat(FKeyPad.ReadOut.value) * -1;  
}  
function Percent () {  
FKeyPad.ReadOut.value = (parseFloat(FKeyPad.ReadOut.value) / 100) *  
parseFloat(Accumulate);  
}  
// End -->  
</SCRIPT>
```

OUTPUT:



RESULT:

Thus the webpage for calculator has been created and executed correctly using JavaScript.

EX NO:12

EXCEL BASICS

DATE :

AIM:

Microsoft Excel is a spreadsheet application that is used for basic data organization, statistical analysis, graphing data as well as many other uses. In this lab, we will take a look at what makes up an Excel spreadsheet and the basic uses of it.

ALGORITHM:

STEP 1: The File menu: This menu allows you to create, save, open and print spreadsheets.

STEP 2: Quick access toolbar: You can customize this toolbar to include all of the functions you use most, such as save and undo.

STEP 3: The ribbon: The ribbon contains all the office menus and toolbars. The ribbon is divided into tabs, each of which contains groups of controls.

STEP 4: Columns: Label 4 is one of the columns in the spreadsheet. Each column is labeled by the letter (or a string of letters) at the top of it.

STEP 5: Rows: Label 5 is one of the rows in the spreadsheet. Each row is labeled by the number to its left.

STEP 6: Cells: A cell is the intersection between a row and column. A cell is where most of the excel data is entered. A cell's address is the row and column it is in, for instance, the boxed cell is in column E and row 13; hence, its address is E13.

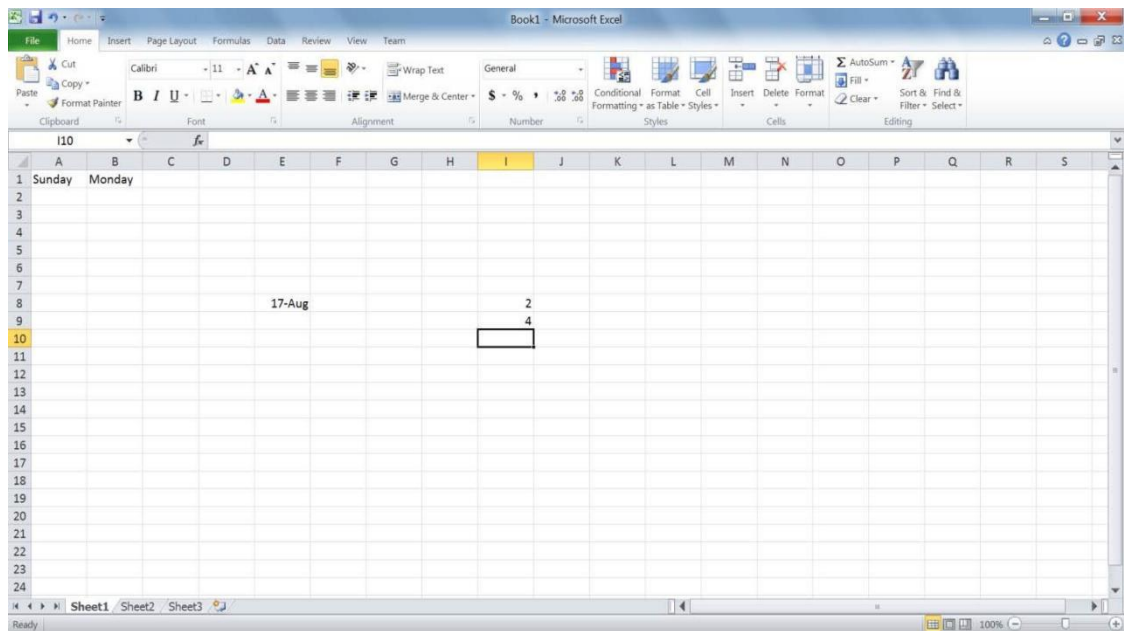
STEP 7: The worksheet toolbar: An Excel file is called a workbook. It consists of a number of spreadsheets (worksheets). This toolbar allows you to move between the different sheets in a workbook. It also allows you to create new worksheets, delete existing sheets, and rename sheets.

Exercise 1

1. Enter the data “Sunday” into cell A1 and “Monday” into cell B1.
2. Type in “17/08” into cell E8.
3. Type in “2” into cell I8 and “4” into cell I9.

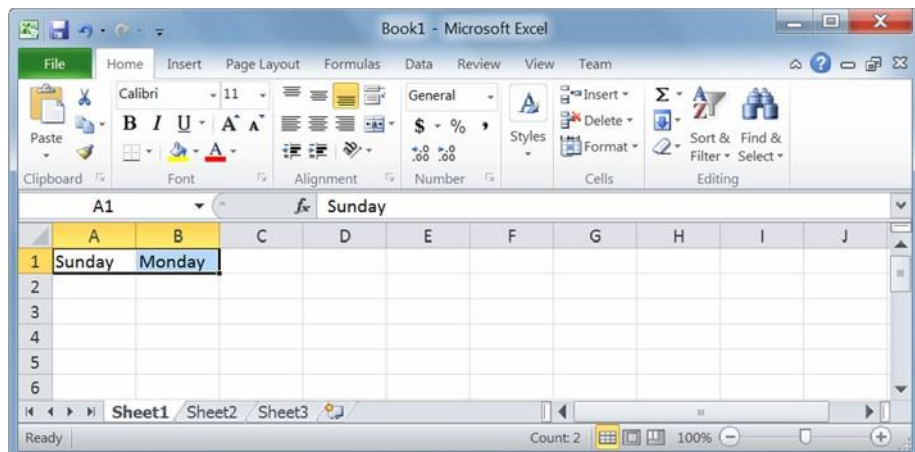
Auto-complete

Your worksheet should now look like this:

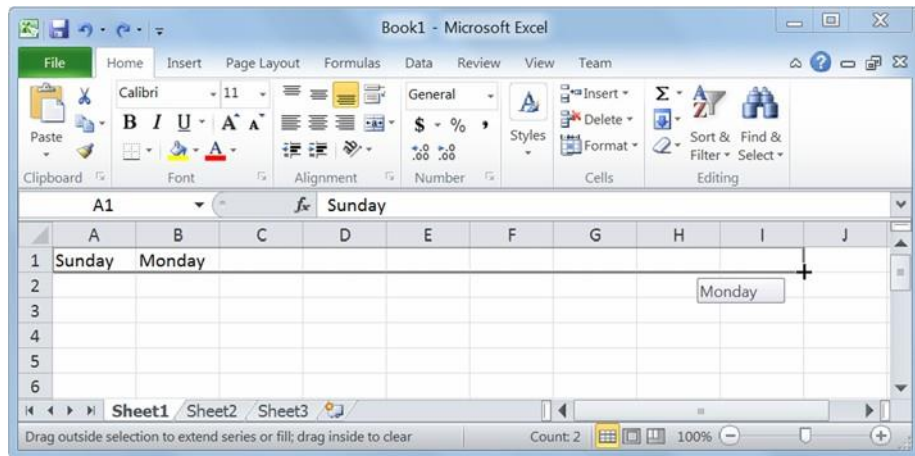


Notice how Excel automatically detected that 17/08 was a date and converted it to 17-Aug. We will discuss formatting data later on in this lab.

Now, we want to select both cells A1 and B1 together. To do this, click A1 and without releasing the mouse button, move the mouse over cell B1. Now there should be a rectangle around both cells as shown below.

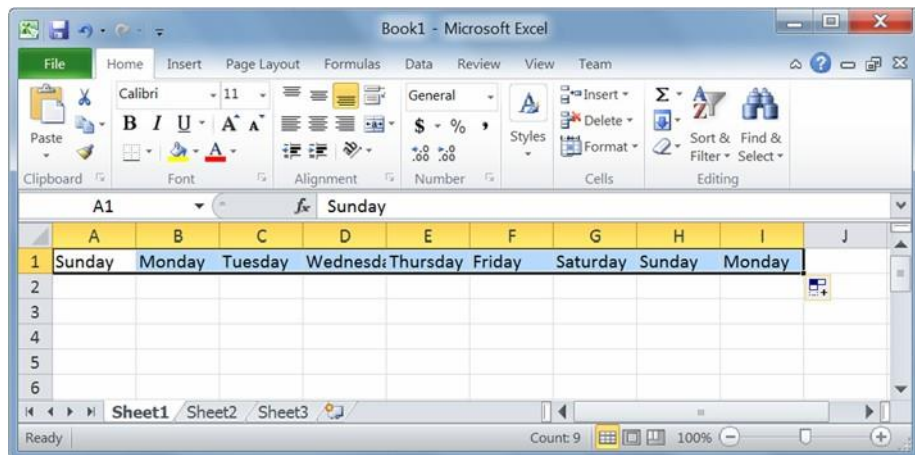


To get excel to auto-complete this row, we now position the mouse cursor at the bottom-left corner of the rectangle. Make sure the cursor has changed into a + sign. Now hold down the cursor and drag it to the left till I1.



OUTPUT

This is what your spreadsheet should look like when you release the mouse button:



RESULT

Thus the excel has been created and datas has been incorporated.

EX NO:13

CHARTS AND PIVOT TABLES

DATE :

AIM:

Turning data into charts can help visualize the information at hand. To convey the appropriate message from your data, you need to select an appropriate type of chart for your data.

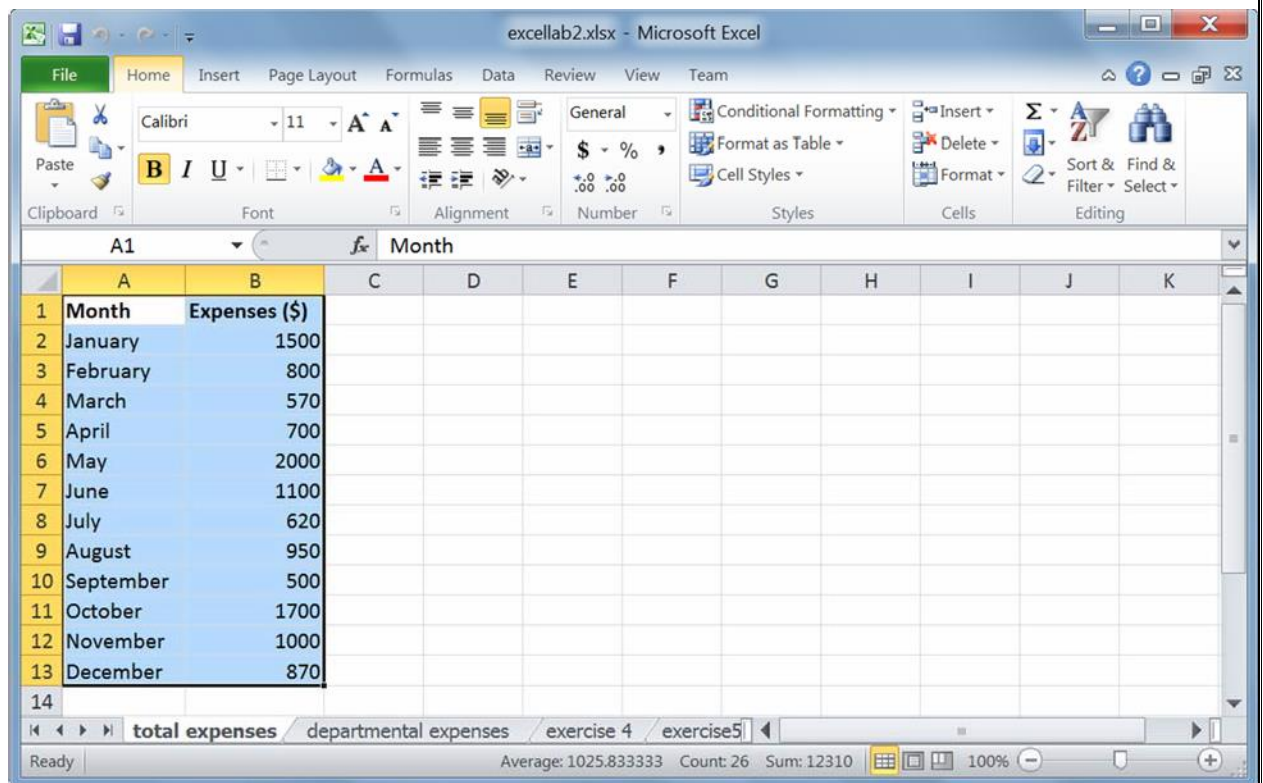
ALGORITHM:

STEP 1: Let us start out with creating a simple chart using the chart wizard.

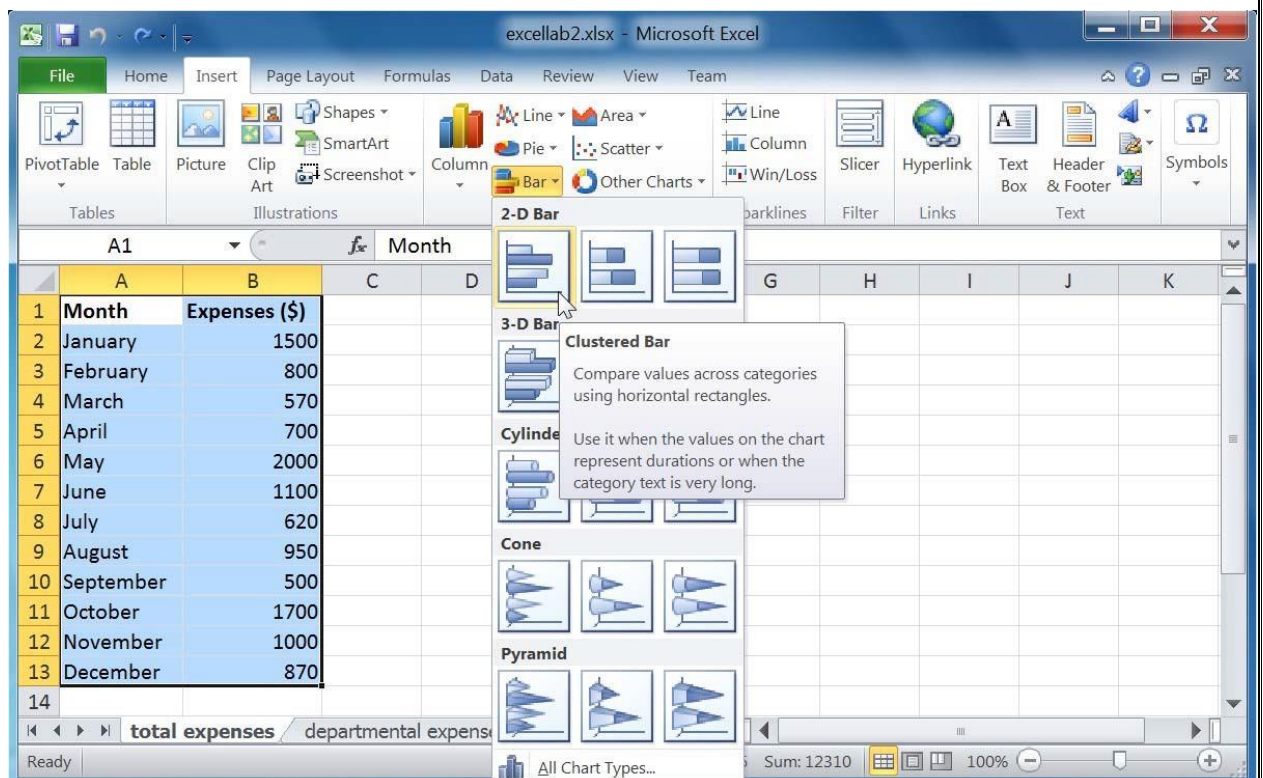
STEP 2: Open the file **excellab2.xlsx**. In the total expenses sheet,

STEP 3: you will see a table showing the total expenses accumulated by a company in the 12 months of a particular year.

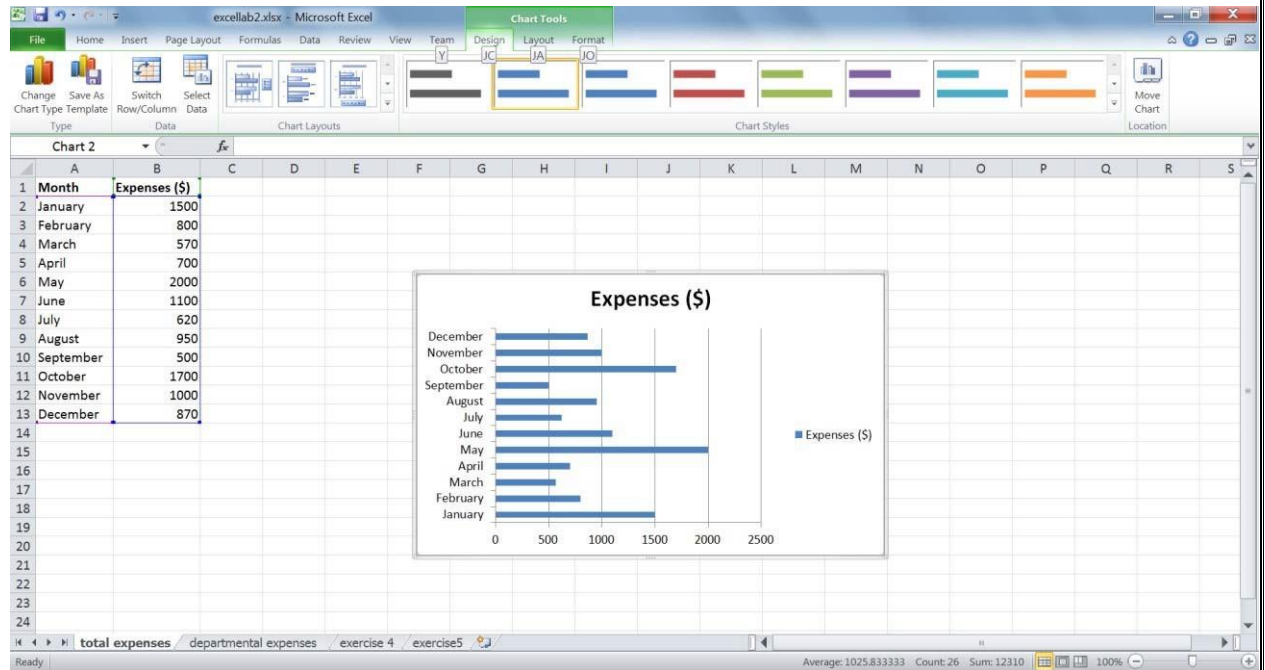
STEP 4: Select the entire table.



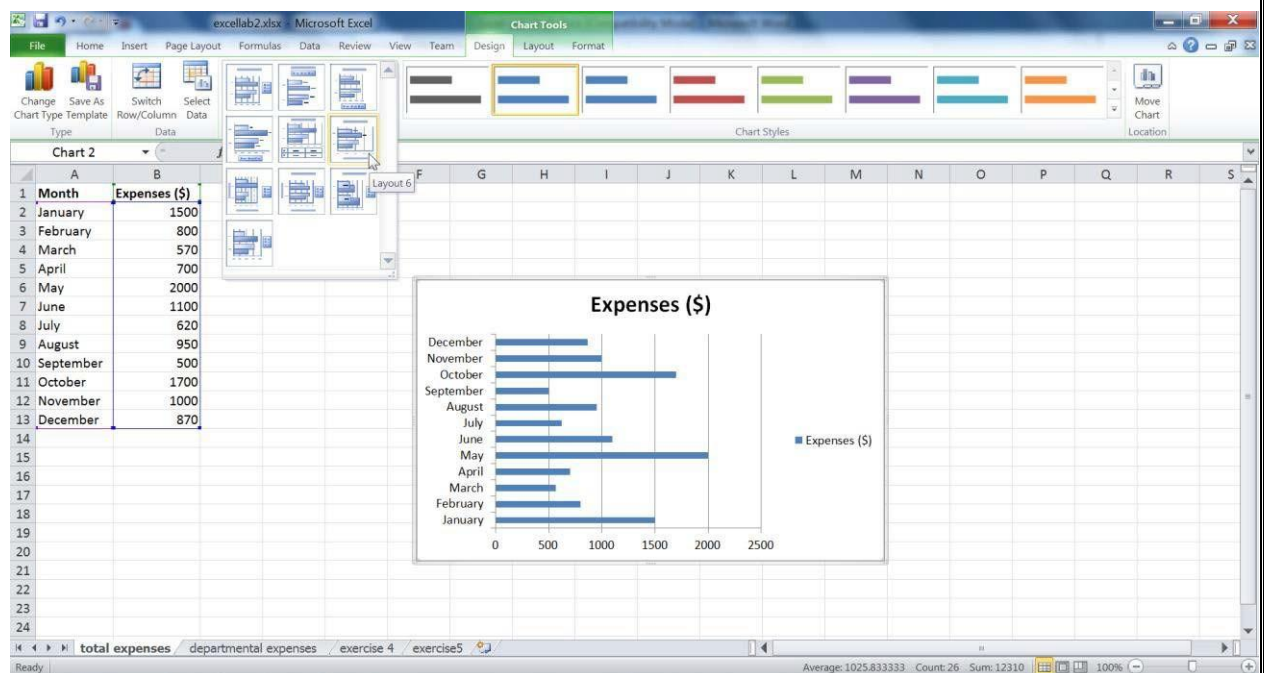
On the ribbon, click the Insert tab. There you will notice the Charts group, showing all the different types of charts that can be created out of the data. Select the 1st option in 2D bars (the clustered bar chart).



This is the chart Excel creates

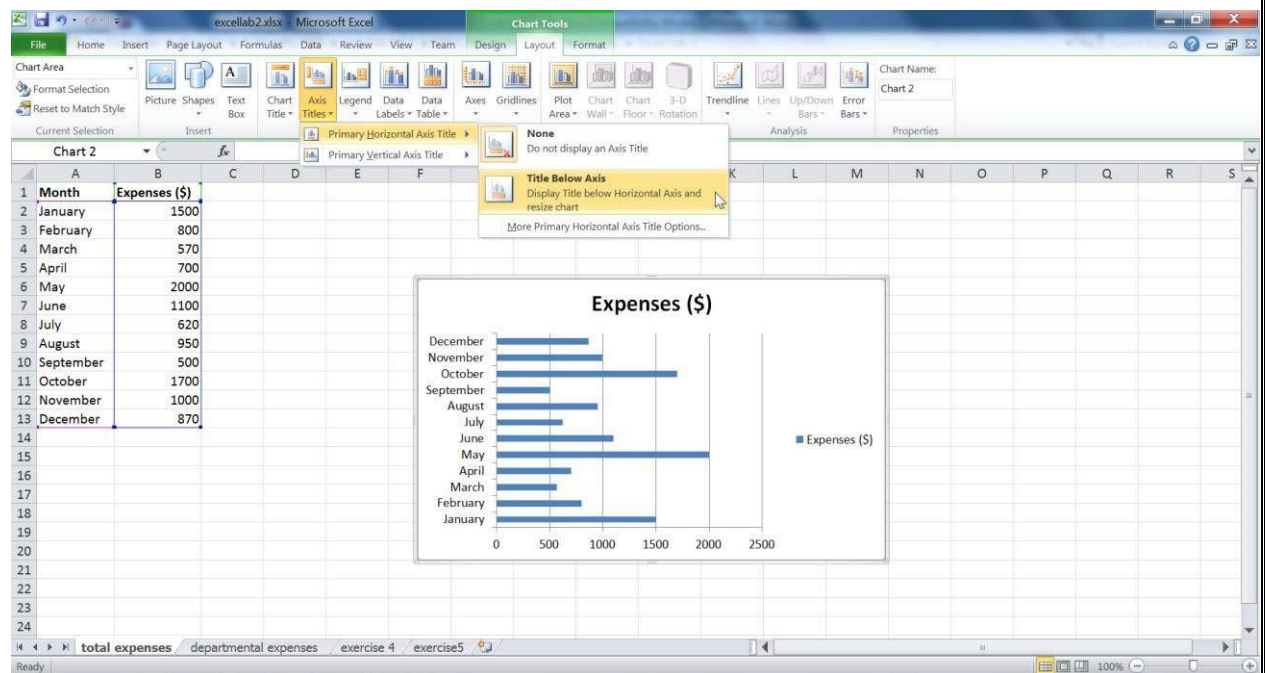


You may need to drag the corner of the chart to make it larger so that all the months are clearly visible on the y-axis. The chart needs some tweaking. First, we need to decide what extra information we want the chart to show. We want this chart to have a meaningful title and show a title for the x-axis. We do not need a legend, a title for the y-axis nor data labels. Now that I know what we want, the chart becomes very easy to customize using Excel's chart layouts.



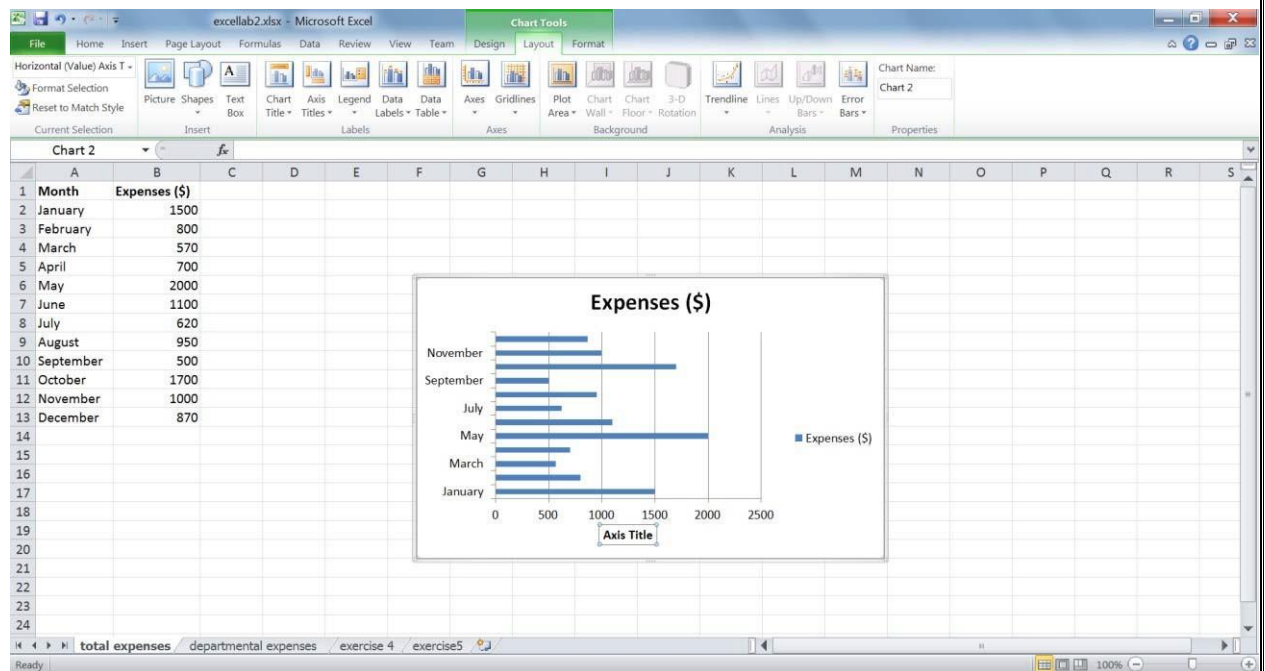
Looking at Excel's built-in layouts, you will notice that none of them quite satisfy our chart requirements. Here we have two options. One option is to select one of the layouts and modify it to fit our needs. For instance, we could pick Layout 6 and simply delete the data labels. The other option would be to go to the Layout tab in the Chart Tools menu. This tab lets you fine tune the layout of the chart.

Take a look at the Labels group in the Layout tab. Since we already have a chart title, we do not need to worry about it. Let us add the x-axis title. Select Axis Titles, then hover over Primary Horizontal Axis Title, and select Title below Axis.



OUTPUT

The chart now shows an x-axis title:



RESULT:

Thus the charts and pivot tables has been created using MS Excel.