output:

```
                                    - ▢ X
```

IWT

Internet

Internet and web technology

E-commerce

E-commerce is the process of buying and
selling goods through internet

E- Governance

E-governance is the application of information for delivering
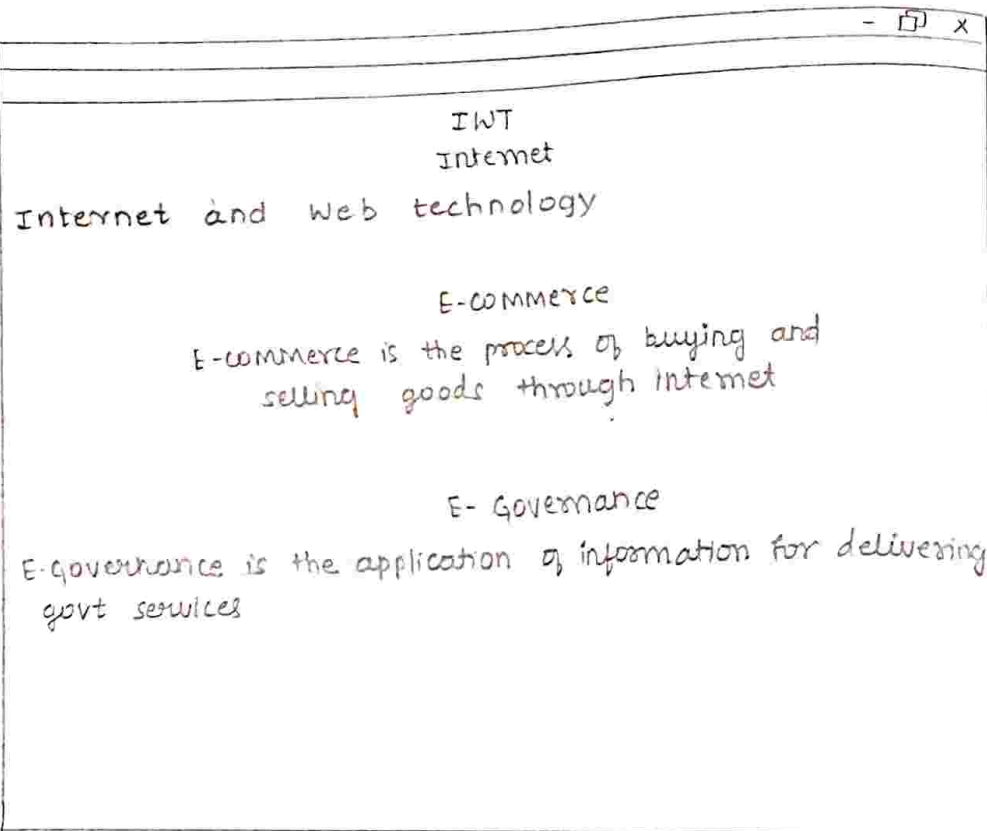govt services

Program-1
Design a web page using css

```html
<html>
  <head>
    <title> IWT </title>
    <style>
      h1 {
          color: blue;
          text-align: center;
      }
      #para {
          color: red;
          font-size: 30px;
          font-family: Courier;
      }
      .font {
          color: orange;
          font-size: 30px;
          font-family: 'Times New Roman';
      }
    </style>
  </head>
  <body style="background-color: lightblue;">
    <h1> IWT <br /> Internet </h1>
    <p id="para"> Internet and web
                  Technologies </p>
    <h1> E-commerce </h1>
    <p style="color: red; font-size: 30px;
              font-family: Bradely Hand ITC;
              text-align: center; ">
```

Electronic commerce is buying
and selling of goods </p>
<h1> E-Governance </h1>
<p class = "font"> Electronic Governance
is the application of information
technology for delivering govt
services </p>
    </body>
</html>

output:-

This page says
enter a value:
1
OK | cancel

This page says
enter a value:
3
OK | cancel

This page says
sum = 6
OK

This page says
average = 2
OK

This page says
enter a value:
2
OK | cancel

This page says
enter a value:
0
OK | cancel

This page says
count = 4
OK

Program-2

Enter a positive number terminated by zero and find sum and average.

```
<html>
   <head>
        <title> sum and average </title>
   </head>
   <body>
        <script>
              var val, sum=0, count=0;
              while (val != 0)
              {
                   val = parseFloat (prompt ("enter a
                                            value!"));
                   sum = sum + val;
                   count++;
              }
              alert ("sum = " + sum);
              alert ("count = " + count);
              avg = sum / (count - 1);
              alert ("average = " + avg);
        </script>
   </body>
</html>
```

output:-

This page says

num	square	cube
5	25	125
6	36	216
7	49	343
8	64	512
9	81	729
10	100	1000
11	121	1331
12	144	1728
13	169	2197
14	196	2744
15	225	3375

OK

Program - 3

Print table of numbers from 5 to 15 and print their squares and cubes using alert.

```
<html>
  <head>
    <title> square and cube </title>
  </head>
  <body>
    <script>
        str = "num square cube";
        for (num=5; num<=15; num++)
        {
            square = num * num;
            cube = num * num * num;
            str = str + "\n " + num + " " +
                  square + " " + cube;
        }
        alert(str);
    </script>
  </body>
</html>
```

output:-

This page says
enter n value:

10

[ok] [cancel]

This page says

55

[OK]

Program -4

write a java script code to find the sum of N natural numbers. (user-defined function).

```
<html>
    <head>
        <title> sum of natural numbers </title>
    </head>
    <body>
        <script>
            function sum(n)
            {
                sum=0;
                for (i=1; i<=n; i++)
                    sum = sum+i ;
                return sum;
            }
            n= prompt ("enter n value:");
            sum_n = sum(n);
            alert(sum_n);
        </script>
    </body>
</html>
```

output :-

```
This page says
enter a value:
5
                    [OK] [cancel]
```

```
This page says

120

                    [OK]
```

Program - 5

Find factorial of a number using java script

```html
<html>
    <head>
        <title> Javascript </title>
    </head>
    <body>
        <script>
            function fact(n) {
                f = 1;
                for (i=1; i<n; i++) {
                    f = f * i;
                }
                return f;
            }
            n = prompt ("enter a value:");
            fact.n = fact(n);
            alent (fact.n);
        </script>
    </body>
</html>
```

output :-

```
This page says
enter a value:
4
                    ok    cancel
```

```
prgm6                          — □ X

    0    1    1    2
```

Program-6

Display Fibonacci series using java script

```html
<html>
   <head>
       <title> prgm6 </title>
    </head>
    <body>
        <script>
            n=prompt ("enter a value:");
            f1=0;
            f2=1;
            document.write (f1," ", f2);
            for(i=3; i<=n; i++) {
            f3=f2+f1;
            document.write(" ", f3);
            f1=f2;
            f2=f3;
            }
        </script>
    </body>
</html>
```

Output:

```
This page says
enter n value:
5
                OK   cancel
```

```
This page says
enter a value:
-1
                OK   cancel
```

```
This page says
enter a value:
2
                OK   cancel
```

```
This page says
enter a value:
-3
                OK   cancel
```

```
This page says
enter a value:
0
                OK   cancel
```

```
This page says
enter a value:
4
                OK   cancel
```

```
Array                              -  □  ×

number of positive elements : 3
number of negative elements : 2
number of zero elements : 1
```

Program - 7

Read n numbers count positive, negative and zeros in the list

```html
<html>
    <head>
        <title> Array </title>
    </head>
    <body>
        <script>
            arr = [ ];
            n = parseInt (prompt ("enter n value:"));
            for (i=0; i<n; i++)
            {
                val = prompt ("enter value:");
                arr = push (val);
            }

            poscount = negcount = zerocount = 0;
            for (i=0; i<n; i++)
            {
                if (arr[i]>0)
                        poscount++;
                else if (arr[i]<0)
                        negcount++;
                else
                        zerocount++;
            }
            document.write("number of positive
                elements:" + poscount + "<br />");
            document.write("number of negative
                elements:" + negcount + "<br />");
```

```
        document.write ("number of zero
              elements :" + zerocount);
    </script>
  </body>
</html>
```

Output:

Student Registration Form

Name [Manasa]

Password [••••••••]

DOB [21/10/2003]

Course [BCA ∨ / BCA / BSc / BCOM]

Gender ○ Male ◉ Female ○ Others

Language ☑ Kannada ☑ English ☐ Hindi

Address: [Bangalore]

Upload pic [Choose File] abcd.jpeg

[Submit] [Reset]

This page says

Number of elements =14

[OK]

Program-8

Create a form having number of elements (Textboxes, radio buttons, checkboxes, and so on) write Java script code to count the number of elements in a form.

```
<html>
    <head>
        <title> prgm8 </title>
        <script>
            function count() {
                n= document.getElementById("1").length;
                alert ("number of elements= "+n);
            }
        </script>
    </head>
    <body>
        <h2> student Registration form </h2>
        <form id="1">
            Name   <input type ="text" name=
            "name"><br /><br />  
            Password   <input type ="password"
            name="pwd" ><br /> <br />  
            DOB   <input type = "date"><br />  
            Course <select>  
                <option> BCA </option>
                <option> BSc </option>
                <option> BCOM </option>
            </select> <br /><br />  
            Gender   <input type="radio" name=
            "gen" value ="m">Male  
```

```html
            <input type="radio" name="gen"
        value="f">Female  
            <input type="radio" name="gen"
        value="o">others  
    </select><br /> <br />  
Language   <input type="checkbox"
        name="lan" value="Kan">Kannada  
        <input type="checkbox" name="lan"
        value="Eng"> English  
        <input type="checkbox" name="lan"
        value="hin"> Hindi  
    <br /> <br />  
Address   <textarea rows=3 cols=100>
    </textarea><br /> <br />  
Uploadpic   <input type="file">
            <br /> <br />  
        <input type="submit" onclick="count()">
             
        <input type="reset">
    </form>
    </body>
</html>
```

output:-

```
- □ X

Firstname  [ Manasa ]

Lastname   [        ]

username   [        ]

      [ Submit ]
```

```
This page says
enter last name
              [ OK ]
```

```
This page says
enter user name
              [ OK ]
```

Program-9

create a form that has number of text boxes. when the
form runs in the browser, fill the text boxes with
data. write java script code that verifies all
textboxes has been filled. If a textbox has been
left empty popup and alert indicating which
textbox has been left empty.

```
<html>
   <head>
      <title> prgm9 </title>
      <script>
            function check(){
               if (document.getElementById ("id1")
                              .value=="")
               alert ("enter first name");
               if (document.getElementById("id2").
                              value=="")
               alert("enter last name");
               if (document.getElementById("id3")
                              .value =="")
               alert("enter user name");
            }
      </script>
   </head>
   <body>
      <form>
         firstname <input type="text" id="id1">
                        <br /> <br />  
         lastname <input type="text" id="id2">
                        <br /> <br />  
```

```
username <input type="text" id="id3">
          <br /> <br />  
          <input type="submit" onclick="check
          ()">
        </form>
     </body>
</html>
```

output:

```
prgm10                                    - □ ×

Enter an expression      [ 5*3+5/2 ]
[ evaluate ]


17.5
```

```
prgm10                                    - □ ×

Enter   an expression      [ 0&&1 ]
[ evaluate ]

0
```

```
prgm10                                    - □ ×

Enter   an expression      [ 0||1 ]
[ evaluate ]

1
```

```
prgm10                                    - □ ×

Enter   an expression      [ 8!=9 ]
[ evaluate ]
true
```

```
prgm10                                    - □ ×

Enter   an expression      [ 9==0 ]
[ evaluate ]
false
```
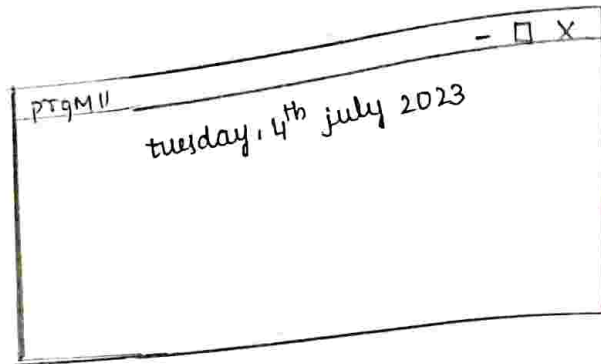
Program-10

Develop a html form which accepts any mathematical
expression. Write java script code to evaluate the
expression and display the result.

```html
<html>
    <head>
        <title> prgm 10 </title>
        <script>
            function progress () {
                dom=document.getElementById
                            ("exp").value;
                e= eval (dom);
                document.write(e);
            }
        </script>
    </head>
    <body>
        <form>
            Enter an expression <input type ="text"
                    name="exp" id ="exp"> <br />
                <input type ="submit" value ="evaluate"
                        onclick ="progress ()">
        </form>
    </body>
</html>
```

output:

```
prgm II

tuesday, 4th july 2023
```

Program -11

Write a java script code block using arrays generate the current date in words, this should include the day, month and year.

```
<html>
    <head>
        <title> prgm II <title>
    </head>
    <body>
        <script>
            days = ['sunday', 'monday', 'Tuesday',
                    'wednesday', 'thursday', 'friday',
                    'saturday'];
            months = ['january', 'february', 'march',
                      'april', 'may', 'june', 'july',
                      'august', 'september', 'october',
                      'november', 'december'];
            var d = new Date();
            var cur_day = d.getDay();
            var cur_date = d.getDate();
            var s = " ";
            if (cur_date == 1 || cur_date == 21 ||
                    cur_date == 31)
                s = "st";
            else if (cur_date == 2 || cur_date == 22)
                s = "nd";
            else if (cur_date == 3 || cur_date == 23)
                s = "rd";
            else
                s = "th";
```

```
                cur_month = d.getMonth();
                cur_year = d.getFullYear();
                document.write("<b><center>"+
                    days[cur_day]+ " , "+ cur_date
                    + "<sup>"+ s + "</sup>+ months
                    [cur_month]+ "   " + cur_year+
                    "</center><b>");
        </script>
    </body>
</html>
```

output:

```
                                          - □ X

    Student Information

  Name        Manasa

  Course      BCA

  SE          65

  AI          75

  IWT         85

  calculate

  Total       225

  Average     75

  Result      Pass

  Grade       A
```

Program-12

create a form for student information, write java
script code to find total, average, result and
grade

```html
<html>
    <head>
        <title> prgm 12 </title>
        <script>
            function calc(){
                a= parseFloat (document.getElementBy
                        Id("se"). value);
                b= parseFloat (document.getElement
                        ById("ai"). value);
                c= parseFloat (document.getElement
                        ById("iwt"). value);
                total= a+b+c;
                document.getElementById("total")
                        .value=total;
                avg= total/3;
                document.getElementById("avg").
                        value= avg;
                if(a<35 || b<35 || c<35)
                        document.getElementById("res")
                                .value = "fail";
                else
                        document.getElementById("res").
                                value = "Pass";
                if (avg>80)
                        document.getElementById("grade")
                                .value= "A+";
```

Student Information

Name **Manasa**

course **BCA**

SE **40**

AI **30**

IWT **45**

[calculate]

Total **115**

Average **38.333**

Result **Fail**

Grade **Fail**

```
        else if (avg≥60)
            document.getElementById("grade"
                .value = "A";
        else if (avg≥50)
            document.getElementById("grade"
                .value = "B+";
        else if (avg>40)
            document.getElementById("grade"
                .value = "B";
        else
            document.getElementById("grade"
                .value = "fail";
    </script>
</head>
<body>
    <form>
        <h2> Student Information</h2>
        Name <input type="text" id="name">
                <br /><br />
        course <input type="text" id="course">
                <br /><br />
        SE <input type="text" id="se"> <br /><br />
        AI <input type="text" id="ai"><br /><br />
        IWT <input type="text" id="iwt"><br /><br />
        <input type="button" value="calculate"
            onclick="calc()"> <br /> <br />
        Total <input type="text" id="total"><br />
        Average <input type="text" id="avg"><br />
        Result <input type="text" id="res"><br />
        Grade <input type="text" id="grade"><br />
    </form>
```

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

output:

Employee Information

Name	Likitha
Basic Pay	30000

[calculate]

DA	1500
HRA	3000
PF	3750
Tax	200
Grosspay	3850
Deduction	3950
Netpay	34500

Program-13

Create a form for employee information. write java script code to find DA, HRA, PF, TAX, Grosspay, Deduction and Netpay.

```
<html>
    <head>
        <title> prgm 13 </title>
        <script>
            function calc(){
                bp=parseFloat (document.getElementById
                        ("salary").value);
                da = (5/100)*bp;
                document.getElementById ("da").value=da;
                hra =(10/100)* bp;
                document.getElementById ("hra").value=hra;
                pf = (12.5/100)* bp;
                document.getElementById (" pf ").value=pf;;
                tax = 200;
                document.getElementById ("tax").value= tax;
                gpay=da+hra+bp+ pf+tax;
                document.getElementById ("gpay").value=gpay;
                ded =pf+tax;
                document.getElementById ("ded").value=ded;
                npay= gpay-ded;
                document.getElementById ("npay").value=npay;
            }
        </script>
    </head>
    <body>
        <form>
```

```html
<h2> Employee Information </h2>
Name <input type = "text" id="name"><br /><br />
Basic pay <input type = "text" id ="salary"><br />
<input type = "button" value ="calculate"
      onclick ="calc()"><br /> <br />
DA <input type ="text" id="da"><br /><br />
HRA <input type = "text" id="hra"><br /> <br />
PF <input type = "text" id="pf"> <br /> <br />
Tax <input type = "text" id="tax"><br /> <br />
Grosspay <input type = "text" id="gpay"> <br /><br />
Deduction <input type = "text" id="ded"><br /><br />
Netpay <input type = "text" id="npay"><br /><br />
</form>
</body>
</html>
```

output:

Hotel

main course

| Dosa |
| Noodles |
| Puri |
| Biriyani |

starters

| Spring roll |
| corncheese balls |
| soup |
| Paneer tikka |

soft drinks

| cocacola |
| maaza |
| Fanta |
| Thumbsup |

Item	Name	Price
Dosa		100
Noodles		90
corn cheese bally		90
soup		80
maaza		90
total cost		450

total cost   clear

Program-14

create a form consists of a two multiple choice list and one single choice list. The first multiple choice list, displays the major dishes available. The second multiple choice list, displays the soft starters available. The single choice list, displays the soft drinks available.

```
<html>
  <head>
    <title>java script </title>
    <script>
      function bill () {
        main =document.getElementById ("main");
        start = document.getElementById ("start");
        soft = document.getElementById ("soft");
        select= "Item    Name    Price \n";
        total = 0;
        for (i=0; i<main.options.length; i++) {
          ch= main.options [i];
          if (ch.selected == true) {
            price = parseInt (ch.value);
            total = total + price;
            select= select+ ch.text +
                    "  " + price +"\n";
          }
        }
      }
      for (i=0; i<start.options.length; i++) {
        ch= start. options [i];
        if (ch.selected == true) {
          price = parseInt (ch.value);
```
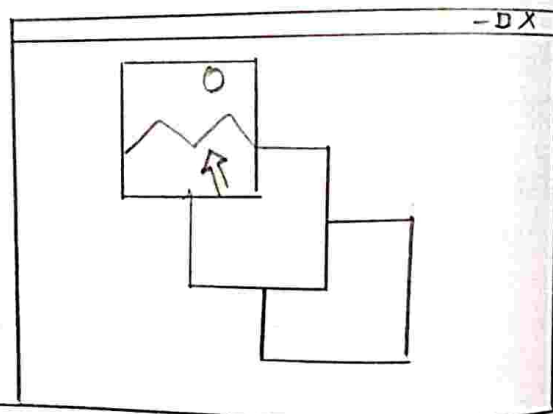
```
                    total = total + price;
                    select = select + ch.text + " "
                          + price + "\n";
               }
          }
     for (i=0; i < soft.options.length; i++) {
          ch = soft.options[i];
          if (ch.selected == true) {
               price = parseInt(ch.value);
               total = total + price;
               select = select + ch.text + " "
                    + price + "\n";
          }
     }
     select = select + "total cost " + total + "\n";
     document.getElementById("display").
                         value = select;
     }
     </script>
     </head>
     <body>
          <form>
               <h2> Hotel </h2>
               Main course   <select id="main'
                              multiple >  
               <option value=100> Dosa </option>
               <option value= 90> Noodles </option>
               <option value=80> Puri </option>
               <option value=70> Biriyani </option>
               </select> <br /> <br />  
               Starters   <select id="main"
```
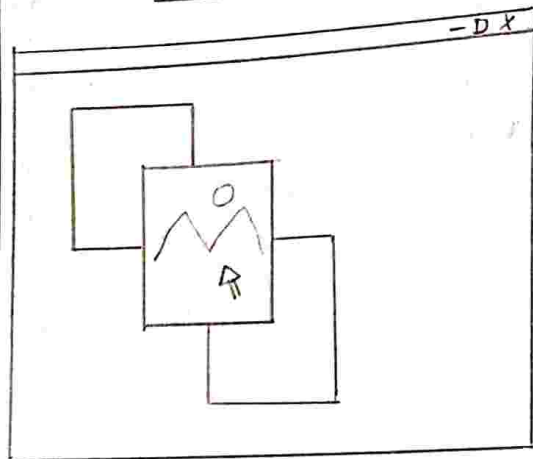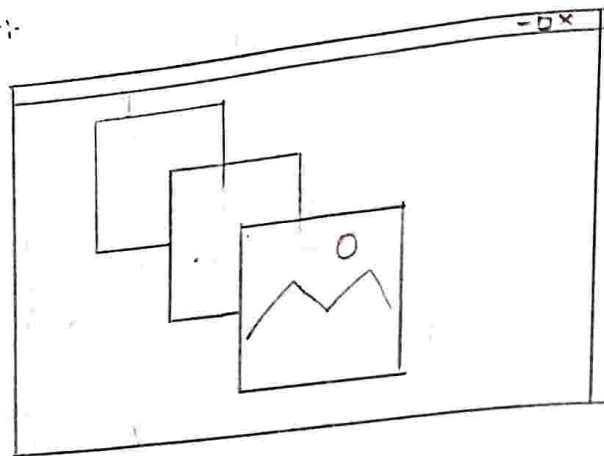
```html
                    multiple >  
        <option value=100> Spring roll</option>
        <option value=90> corn cheese balls
                        </option>
        <option value=80> soup </option>
        <option value=70> Paneer tikka </option>
    </select> <br /> <br />  
softdrinks  < select id="soft">  
        <option value=100> cococola </option>
        <option value=90> Maaza </option>
        <option value=80> Fanta < /option>
        <option value=70> Thumps up</option>
    </select> <br /> <br />  
    <textarea id="display" rows=10 cols=50>
        </textarea> <br /><br />  
    <input type ="button" value="total cost"
            onclick= "bill()" >  
    <input type = "reset"  value="clear">
    </form>
    </body>
</html>
```

output:-

Program-15

create a page with dynamic effects. Write the code to include layers and basic animamation.

```html
<html>
  <head>
    <title> prgm 15</title>
    <script>
        function dup(id) {
            d=document.getElementById (id);
            d.style.zIndex =10;
        }
        function hid (id) {
            d = document.getElementById (id);
            d.style.zIndex =0;
        }
    </script>
    <style>
        .img1 {
            top : 100px;
            left : 100px;
            position : absolute;
            z-index : 0;
            height : 200px;
            width : 200px;
        }
        .img2 {
            top: 150px;
            left : 150px;
            position : absolute;
            z-index: 0;
```

```
                    height: 200px;
                    width: 200px;
            }
            .img3 {
                    top: 200px;
                    left: 200px;
                    position: absolute;
                    z-index: 0;
                    height: 200px;
                    width: 200px;
            }
        </style>
    </head>
    <body>
        <img src="1.jpg" class="img1" id="1"
            onmouseover="disp('1')" onmouseout=
                                "hid('1')">
            <img src="2.jpg" class="img2" id="2"
            onmouseover="disp('2')" onmouseout=
                                "hid('2')">
            <img src="3.jpg" class="img3" id="3"
            onmouseover="disp('3')" onmouseout=
                                "hid('3')">
        </body>
    </html>
```