Assignment-8

1.Write a javascritpt program to calculate sum and average of given three subject.

Code:

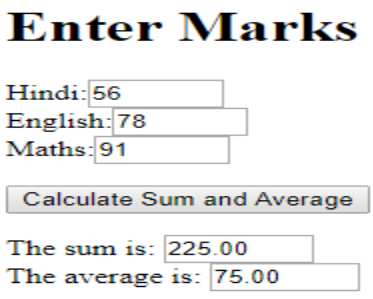
```
<!DOCTYPE HTML program to calculate SUM and AVERAGE of three subjects>
<html>
<head>
<title>javascript cal</title>

<script type="text/javascript">
var r = 2;
function calculate(f) {
var sum =0;
var ent = document.getElementById('entries').getElementsByTagName('input');
for(var i=0;i<ent.length;i++){
sum+=Number(ent[i].value)*Math.pow(10,r)
}
f.sumBox.value = (sum/Math.pow(10,r)).toFixed(r);
f.averageBox.value = ((sum/Math.pow(10,r))/ent.length).toFixed(r);
}
</script>
</head>
<body>
```

```
<h1>Enter Marks </h1>
<form id="numbersForm" name="numbersForm">
<div id="entries">
Hindi:<input type="text" name="num1Box" size="5"><br>
English:<input type="text" name="num2Box" size="5"><br>
Maths:<input type="text" name="num3Box" size="5"><br>

</div>
<p>
<input type="button" value="Calculate Sum and Average"
onclick ="calculate(this.form)">
<p>
The sum is: <input type="text" name="sumBox" size="6"><br>
The average is: <input type="text" name="averageBox" size="6"><br>
</form>
</body>
</html>
```

Output:



2.Write a javascritpt program to validate Name,Age,Email,Country in the given form.

Code:

```
<!DOCTYPE html>
<html><head>

<title>JavaScript Form Validation</title>
<script type="text/javascript">

function Validation()
{
var nam=document.forms["registration"]["uname"];
if (nam.value == "" || nam.length>30)
   {
      window.alert("Please enter your name.");
      name.focus();
      return false;
   }

var email=document.forms["registration"]["uemail"];
if (email.value == "")
   {
      window.alert("Please enter your email.");
```

```
      name.focus();
      return false;
   }
var x=document.registration.uemail.value;
var atposition=x.indexOf("@");
var dotposition=x.lastIndexOf(".");
if (atposition<1 || dotposition<atposition+2 || dotposition+2>=uemail.length){
  alert("Please enter a valid e-mail address \n atpostion:"+atposition+"\n
dotposition:"+dotposition);
  return false;
  }



var age=document.forms["registration"]["uage"];
if (age.value == "")
   {
      window.alert("Please enter your age.");
      name.focus();
      return false;
   }
if (age.value < 18|| age.value > 58)
{
  alert("The age must be a number between 18 and 58");
  return false;
}
```

```
}
</script>
</head>

<body>
<h1>Validation Form</h1>

<form name='registration' onSubmit="return Validation();">
<ul>

Name:<input type="text" name="uname" size="30" /><br><br>
Email:<input type="text" name="uemail" size="30" /><br><br>
Age:<input type="text" name="uage" size="2" /><br><br>

<label for="country">Country:</label></li>
<select name="country">
<option selected="" value="Default">(Please select a country)</option>
<option value="AF">Australia</option>
<option value="AL">Canada</option>
<option value="DZ">India</option>
<option value="AS">Russia</option>
<option value="AD">USA</option>
</select><br><br>
```

```
<input type="submit" name="submit" value="Submit"  ">
</ul>
</form>
</body>
</html>
```

Output:

Assignment-9

1.Write an program in java to use applet to design clock.

Code:

Clock.java

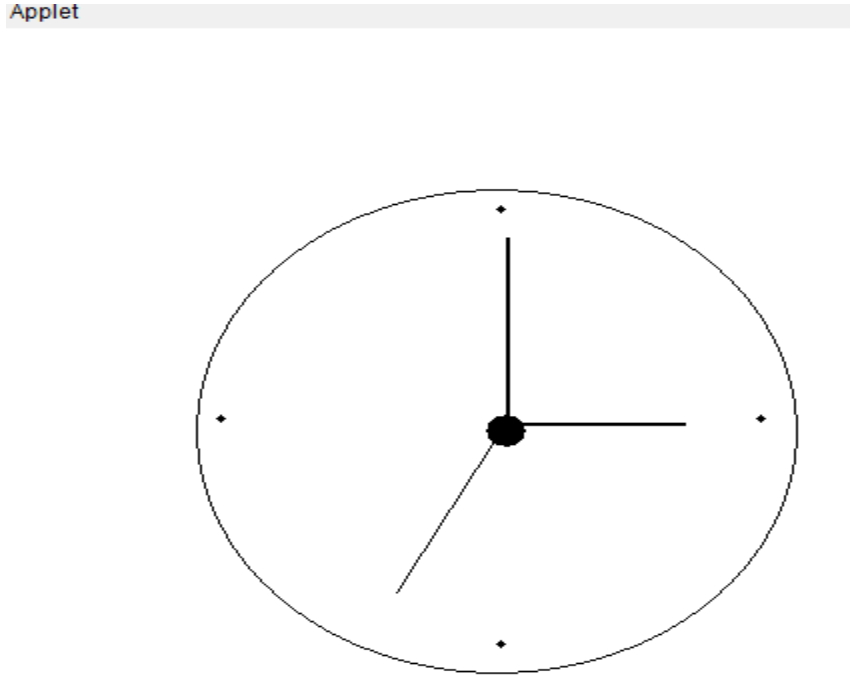
```
import java.awt.*;
import java.applet.*;
/*<applet code="clock.class" height="300" width="300">
</applet>*/
public class clock extends Applet{

    public void paint(Graphics g){
        g.drawOval(100,100,300,300);
        g.fillOval(250,110,5,5);
        g.fillOval(380,240,5,5);
        g.fillOval(250,380,5,5);
        g.fillOval(110,240,5,5);
        g.fillOval(245,240,20,20);
        g.fillRect(255,130,2,130);
        g.fillRect(255,245,90,2);
        g.drawLine(253,248,200,350);
    }
```

Clock.html

```
html>
<body>
<applet code="clock.class" width="300" height="300">
</applet>
</body>
</html>
}
```

Output:



2. Write a program in java to use applet to design wheels.

Code:

Wheel.java

```
import java.awt.*;
import java.applet.*;
/*<applet code="wheel.class" height="300" width="300">
</applet>*/
public class wheel extends Applet{

    public void paint(Graphics g){
        Color c=new Color(0.9f,0.27f,0.5f);
        g.setColor(Color.pink);
        g.fillArc(100,100,300,300,0,45);
        g.setColor(Color.gray);
        g.fillArc(100,100,300,300,45,45);
        g.setColor(c.brighter());
        g.fillArc(100,100,300,300,90,45);
        g.setColor(Color.lightGray);
        g.fillArc(100,100,300,300,135,45);
        g.setColor(Color.yellow);
        g.fillArc(100,100,300,300,180,45);
        g.setColor(Color.green);
```

```
            g.fillArc(100,100,300,300,225,45);
            g.setColor(Color.cyan);
            g.fillArc(100,100,300,300,270,45);
            g.setColor(Color.orange);
            g.fillArc(100,100,300,300,315,45);
        }
}
```

Wheel.html

```
html>
<body>
<applet code="wheel.class" width="300" height="300">
</applet>
</body>
</html>
```

Output: