PRACTICAL 10

Practical Definition :

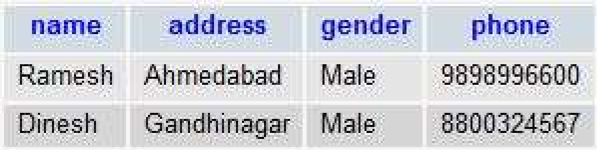
- Write a database application that use any JDBC driver.

Source Code :

```
import java.sql.*;
public class test {
    public static void main(String ar[])
    {
    Connection cn=null;
        ResultSet rs;
        Statement st=null;
          try{
              Class.forName("com.mysql.jdbc.Driver");
              cn=DriverManager.getConnection("jdbc:mysql://localhost/test","root","");
              st=cn.createStatement();
              rs=st.executeQuery("select * from registration");
              while(rs.next())
                     {
                     System.out.println(rs.getString(1)+" "+rs.getString(2));
                      }
              }
           catch(SQLException e)
             {
               System.out.println("Error while fetching records");
               e.printStackTrace();
             }
             catch(Exception e)
             {
               e.printStackTrace();

             }
    }
}
```

➢ Program Output :

```
Ramesh Ahmedabad
Dinesh Gandhinagar
```



name	address	gender	phone
Ramesh	Ahmedabad	Male	9898996600
Dinesh	Gandhinagar	Male	8800324567

PRACTICAL 11

Practical Definition :

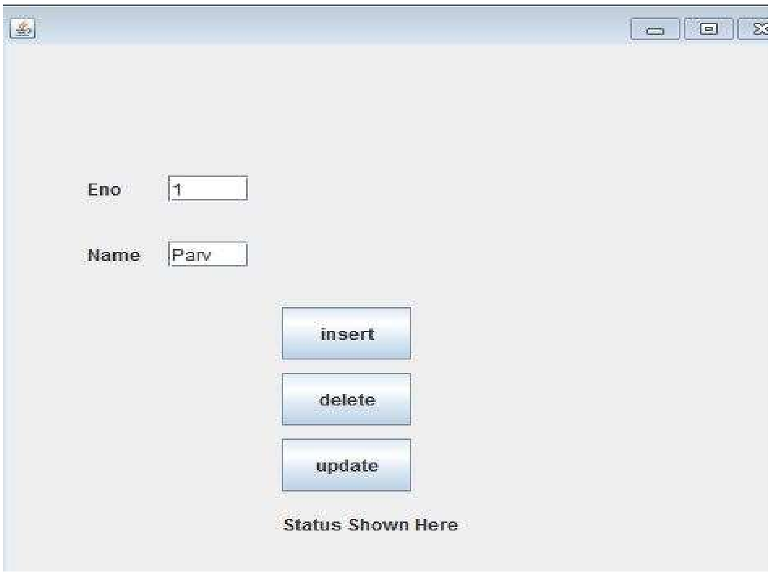
- Develop a UI that performs the following SQL operations:1) Insert 2)Delete 3)Update.

Source Code :

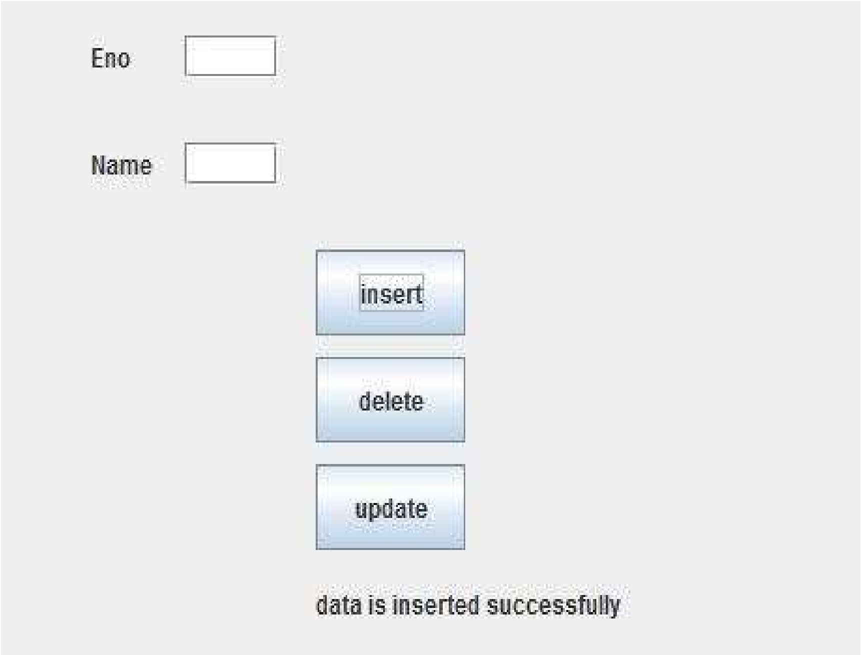
```
import java.awt.*;
import javax.swing.*;
import java.awt.event.*;
import java.applet.*;
import java.sql.*;

public class updateapplet extends JFrame implements ActionListener
{
   JButton b1,b2,b3;
   JTextField no;
   JTextField name;
   JLabel l1,l2,l3;
   int n;
   updateapplet(String str)
   {
   setLayout(null);
   no=new JTextField();
     no.setBounds(100,100,50,20);
     name=new JTextField();
     name.setBounds(100,150,50,20);
     l1=new JLabel("Eno");
     l1.setBounds(50,100,30,20);
     l2=new JLabel("Name");
     l2.setBounds(50,150,50,20);
     l3=new JLabel("Status Shown Here");
     l3.setBounds(170,350,200,30);
```

```
        JButton b1=new JButton("insert");
        b1.setBounds(170,200,80,40);
        JButton b2=new JButton("delete");
        b2.setBounds(170,250,80,40);
        JButton b3=new JButton("update");
        b3.setBounds(170,300,80,40);
        add(l1);
        add(no);
        add(l2);
        add(name);
        add(b1);
        add(b2);
        add(b3);
        add(l3);
        b1.addActionListener(this);
        b2.addActionListener(this);
        b3.addActionListener(this);
}
        public void actionPerformed(ActionEvent e1){
        String s,s1,op;
        op=e1.getActionCommand();
        s=no.getText();
        n=Integer.parseInt(s);
        s1=name.getText();
        Connection cn=null;
        Statement st=null;
        try{
                Class.forName("com.mysql.jdbc.Driver");
                cn=DriverManager.getConnection("jdbc:mysql://localhost/ajava","root","");
                st=cn.createStatement();
                if(op=="insert")
                   {
                        st.executeUpdate("insert into empo(eno,ename) values('"+n+"','"+s1+"')");
                        l3.setText("data is inserted successfully");
                        no.setText("");
                         name.setText("");
                   }
                if(op=="update")
                    {
                        st.executeUpdate("update empo set ename='"+s1+"' where eno='"+n+"' ");
                        l3.setText("data is updated successfully");
                        no.setText("");
                        name.setText("");
                    }
                  if(op=="delete")
                   {
                        st.executeUpdate("delete from empo where eno='"+n+"' AND ename='"+s1+"' ");
                        l3.setText("data is deleted successfully");
                        no.setText("");
                        name.setText("");
                    }
        }
        catch(SQLException e)
        {
        System.out.println("Error");
        e.printStackTrace();
        }
        catch(Exception e)
        {
        e.printStackTrace();
        }
}
        public static void main(String ar[])
        {
        updateapplet jf=new updateapplet("Insert demo");
         jf.setSize(500,500);
        jf.setVisible(true);
 }
}
```

- ## **Program Output :**



Status Shown Here



data is inserted successfully

PRACTICAL 12

Practical Definition :

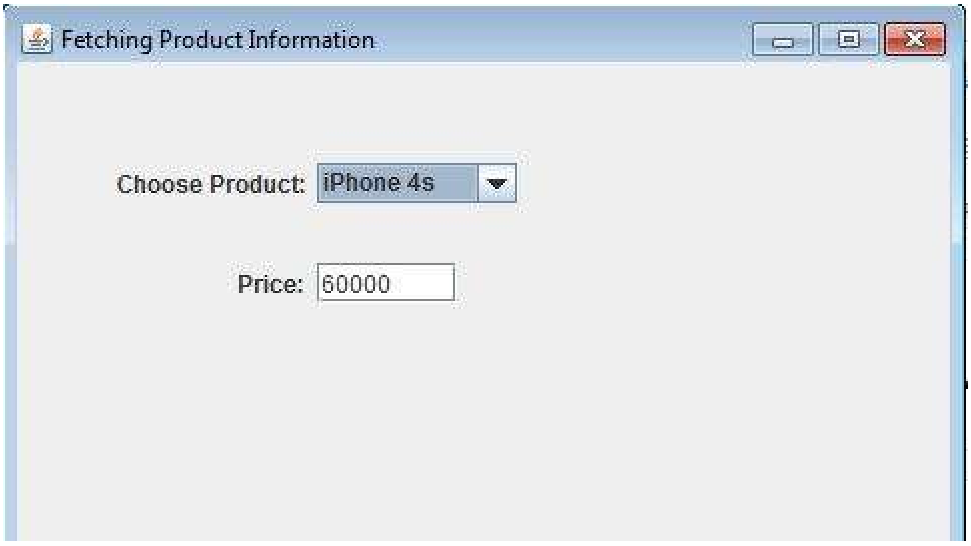
- Write a program to present a set of choice for user to select a product & display the price of product.

Source Code :

```
import javax.swing.*;
import java.awt.event.*;
import java.awt.*;
import java.sql.*;
  public class prac13 extends

 JFrame implements ItemListener {

      JComboBox jcb=new JComboBox();

      JLabel lb1,lb2;

      JTextField jt;

  prac13()

         {

  super("Fetching Product Information");

          setLayout(null);

            lb1=new JLabel("Choose Product:");

             lb2=new JLabel("Price:");

           jt=new JTextField(10);

          jt.setBounds(150,100,70,20);

          jcb.setBounds(150,50,100,20);

          lb1.setBounds(50,50,100,20);
lb2.setBounds(110,100,100,20);
jcb.addItem("iPhone 4s");
jcb.addItem("iPhone 5s");
jcb.addItem("iPhone 6s");


    add(jcb);
    add(jt);
    add(lb1);
    add(lb2);
     jcb.addItemListener(this);
    }
 public void itemStateChanged(ItemEvent ie)
    {
      String str=(String)jcb.getSelectedItem();

    Connection cn=null;
     ResultSet rs;
    Statement st=null;
     String u="root";
     String p="";

 try{
        Class.forName("com.mysql.jdbc.Driver");
        cn=DriverManager.getConnection("jdbc:mysql://localhost/product",u,p);
        st=cn.createStatement();
        rs=st.executeQuery("select price from productdetail where name='"+str+"'");
        while(rs.next())
       {
        jt.setText(rs.getString(1));
       }
      }
 catch(SQLException e)
       {
          System.out.println("Error in fetching records");
          e.printStackTrace();


       }
    catch(Exception e)
       {
          e.printStackTrace();
       }
 }
```

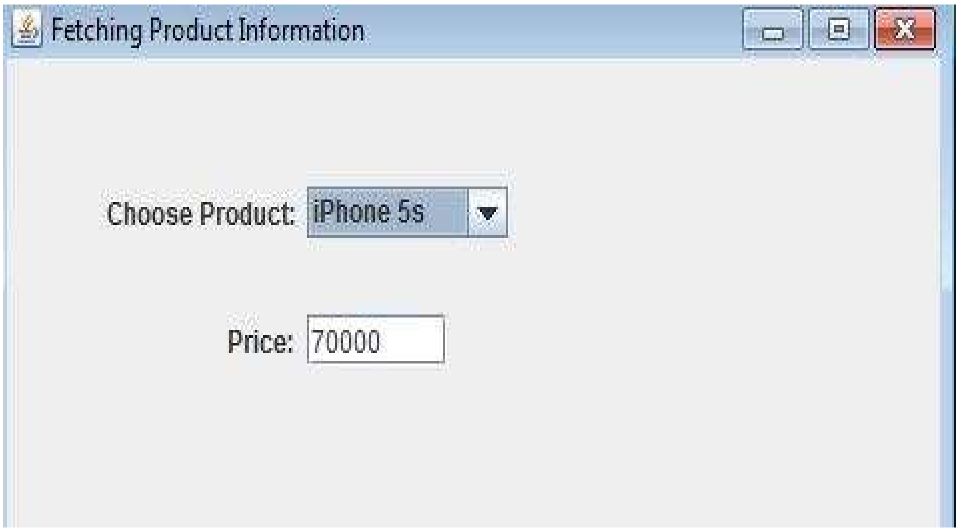
```
  public static void main(String ar[])
  {
   prac13 sw=new prac13();
     sw.setVisible(true);
     sw.setSize(500,500);
}
}
```

➢ Program Output :



Choose Product: iPhone 4s

Price: 60000



Choose Product: iPhone 5s

Price: 70000

PRACTICAL 13

Practical Definition :

- Write a simple servlet program which maintains a counter for the number of times it has been accessed since its loading, initialize the counter using deployment descriptor.

Source Code :

```
import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class NewServlet extends HttpServlet {

      private int hitCount;

        public void init()      {

         hitCount = Integer.parseInt(this.getInitParameter("counter"));

      }

    protected void doGet(HttpServletRequest request, HttpServletResponse response)

            throws ServletException, IOException {

            response.setContentType("text/html");

      PrintWriter out = response.getWriter();

       hitCount++;

       out.println("the count is : " + hitCount);

    }

}
```

- **Program Output :**

```
Total No Of Count:5
```

PRACTICAL 14

Practical Definition :

- Create a form processing servlet which demonstrates use of cookies and sessions.

Source Code :

//login.html

```
          <html>
    <head>

    </head>
    <body>
        <form action="session" method="post">
            Name<input type="text" name="name">
            <input type="submit" value="submit">
        </form>
    </body>
</html>
```

//session.java

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.*;

public class session extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        PrintWriter o=response.getWriter();
        String n=request.getParameter("name");
        o.println("welcome");
        Cookie c1=new Cookie("name",n);
        response.addCookie(c1);
```

```
            HttpSession session=request.getSession();
            session.setAttribute("name",n);

         o.println("<form action='accesscookie' method='post'>");
         o.println("<input type='submit' value='getcookie'> ");
         o.println("</form>");
         o.println("<form action='accesssession' method='post'>");
         o.println("<input type='submit' value='getsession'> ");
         o.println("</form>");
    }
}
```

//accesssession.java

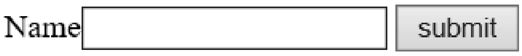
```
import java.io.*;
import javax.servlet.ServletException;
import javax.servlet.http.*;

public class accesssession extends HttpServlet {

   protected void doPost(HttpServletRequest request, HttpServletResponse response)
          throws ServletException, IOException {
      response.setContentType("text/html;charset=UTF-8");
      PrintWriter out = response.getWriter();
      HttpSession session=request.getSession(false);
      String n=(String)session.getAttribute("name");
      out.println("session ="+n);
}}
```

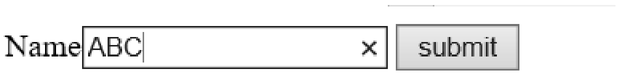
//accesscookie.java

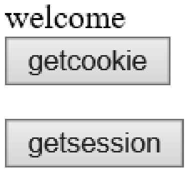
```
    import java.io.IOException;
    import java.io.PrintWriter;
    import javax.servlet.*;
    import javax.servlet.http.*;

    public class accesscookie extends HttpServlet {
       protected void doPost(HttpServletRequest request, HttpServletResponse response)
              throws ServletException, IOException {
          response.setContentType("text/html;charset=UTF-8");
          PrintWriter out = response.getWriter();
          out.println("cookie accessed....");
          out.println("<br>");
          Cookie ck[]=request.getCookies();
          int i=0;
```

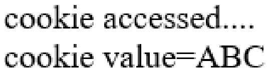
```
                out.println("cookie value="+ck[i].getValue());
            }
    }
```

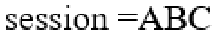
➢ Program Output :




Name ABC


welcome


```
cookie accessed....
cookie value=ABC
```


```
session =ABC
```

PRACTICAL 15

Practical Definition :

- Write a simple JSP program for user Registration & then control will be transfer it into second page.

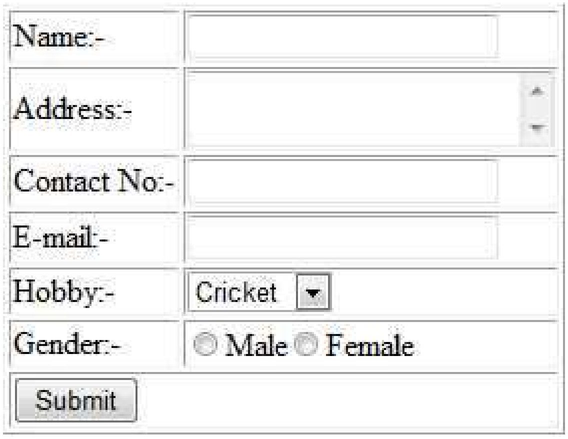
Source Code :

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

   <head>

      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

      <title>JSP Page</title>

   </head>

   <body>

       <form action="display.jsp">

         First Name : <input type="text" name="fname" value="" /><br> Last Name

          : <input type="text" name="lname" value="" /><br> Enrollment Number :

          <input type="number" name="eno" value="" /><br>

          Address : <textarea name="addr" rows="4" cols="20"
inputmode="number"></textarea><br>

         Contact Number : <input type="number" name="contact" value="" /><br>

         <input type="submit" value="Submit" />

      </form>

   </body>

</html>
```

//Display.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<%
    String result = " ";
String fname = request.getParameter("fname");
String lname = request.getParameter("lname");
String eno = request.getParameter("eno");
String addr = request.getParameter("addr");
String contact = request.getParameter("contact");
out.println("hello "+fname + " " + lname);
out.println("<br> your details are ");
out.println("Enrollment Number : "+ eno + "<br>");
out.println("Address : "+ addr+ "<br>");
out.println("Contact Number : "+ contact+ "<br>");
%>
```

➢ **Program Output :**



PRACTICAL 16

Practical Definition :

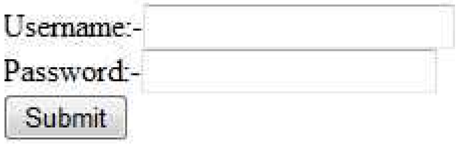
- Write a simple JSP program for user login form with static & dynamic database

Source Code :

```
//Index.jsp
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>JSP Page</title>
    </head>
    <body>
      <form action="logprocess.jsp">
        Name : <input type="text" name="name" value="" /> <br>
        Password : <input type="password" name="pass" value="" /><br>
        <input type="submit" value="Submit" />
        </form>
    </body>
</html>
//Loginprocess.jsp
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<%
```

```
    String name = request.getParameter("name");

    String pass = request.getParameter("pass");

          if( name.toLowerCase().trim().equals("admin") &&
pass.toLowerCase().trim().equals("admin"))

        {

            out.println("logged in successfully");

        }

 else

 {

     out.println("wrong id nd password");

 }

%>
```

- ## <u>Program Output</u> :



PRACTICAL 17

Practical Definition :

- Write a JSP program to display the grade of a student by accepting the marks of five subjects.

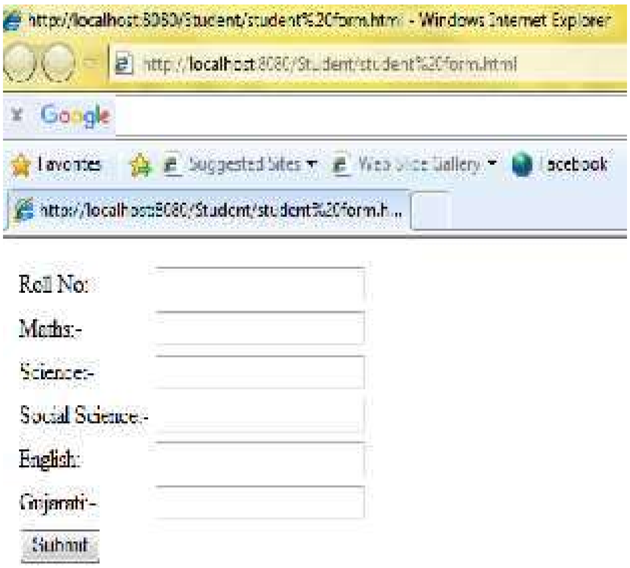
Source Code :

```
//index.jsp
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>JSP Page</title>
    </head>
    <body>
        <form action="display.jsp">
            Name : <input type="text" name="name" value="" /><br>
            Marks for Subject 1 : <input type="text" name="sub1" value="" /><br>
            Marks for Subject 2 : <input type="text" name="sub2" value="" /><br>
            Marks for Subject 3 : <input type="text" name="sub3" value="" /><br>
            Marks for Subject 4 : <input type="text" name="sub4" value="" /><br>
            Marks for Subject 5 : <input type="text" name="sub5" value="" /><br>
            <input type="submit" value="Submit" />
        </form>
    </body>
</html>
```

```
//display.jsp
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<%
    String result = " ";
String name = request.getParameter("name");
String sub1 = request.getParameter("sub1");
int s1 = Integer.parseInt(sub1);
String sub2 = request.getParameter("sub2");
int s2 = Integer.parseInt(sub2);
String sub3 = request.getParameter("sub3");
int s3 = Integer.parseInt(sub3);
String sub4 = request.getParameter("sub4");
int s4 = Integer.parseInt(sub4);
String sub5 = request.getParameter("sub5");
int s5 = Integer.parseInt(sub5);
if(s1<35 || s2<35 || s3<35 || s4<35 || s5<35 || s1+s2+s3+s4+s5 < 175)
{
 result = "Sorry , you have failed the exam";
}
else if(s1+s2+s3+s4+s5 >= 430){
    result = "Congratulations , you have got A+ Grade";
}
else if(s1+s2+s3+s4+s5 >= 350){
    result = "Congratulations , you have got A Grade";
}
```

```
        else if(s1+s2+s3+s4+s5 >= 270){
            result = "Congratulations , you have got B Grade";
        }
  else if(s1+s2+s3+s4+s5 >= 200){
      result = "Congratulations , you have got C Grade";
  }
  else if(s1+s2+s3+s4+s5 >= 175){
      result = "Congratulations , you have got D Grade";
  }
  out.println("hello "+name);
  out.println(" , " + result);
  %>
```

- **Program Output :**


http://localhost:8080/Student/student%20form.html - Windows Internet Explorer
http://localhost:8080/Student/student%20form.html
Google
Favorites
Suggested Sites
Web Slice Gallery
Facebook
http://localhost:8080/Student/student%20form.h...

Roll No:

Maths:-

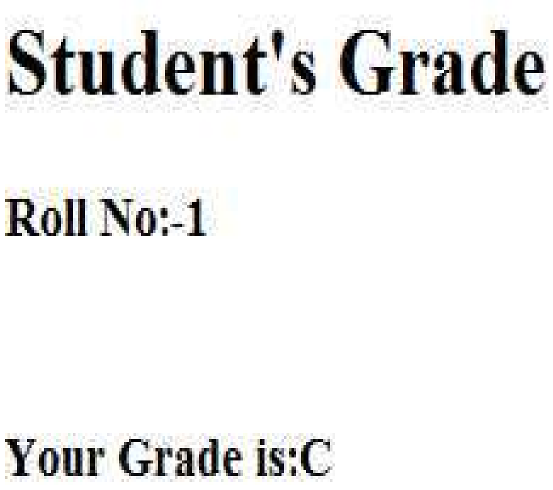
Science:-

Social Science:-

English:

Gujarati:-

Submit



```
Student's Grade

Roll No:-1

Your Grade is:C
```