

<b>Q-1</b>	<b>Factorial</b>
<b>Code</b>	<b>Html File</b> <pre> &lt;!DOCTYPE html&gt; &lt;html&gt; &lt;head&gt; &lt;meta charset="ISO-8859-1"&gt; &lt;title&gt;Insert title here&lt;/title&gt; &lt;/head&gt; &lt;body&gt;  &lt;form action="factorial"&gt; Enter a number&lt;input type="text" name ="n1"/&gt; &lt;br&gt;&lt;br&gt; &lt;input type="submit" value="Submit"/&gt;  &lt;/form&gt;  &lt;/body&gt; &lt;/html&gt; </pre>
<b>Code</b>	<b>Java File</b> <pre> import java.io.IOException; import java.io.PrintWriter;  import javax.servlet.ServletException; import javax.servlet.annotation.WebServlet; import javax.servlet.http.HttpServlet; import javax.servlet.http.HttpServletRequest; import javax.servlet.http.HttpServletResponse;  /**  * Servlet implementation class factorial  */ @WebServlet("/factorial") public class factorial extends HttpServlet {     private static final long serialVersionUID = 1L; </pre>

```

/**
 * @see HttpServlet#HttpServlet()
 */
public factorial() {
    super();
    // TODO Auto-generated constructor stub
}

/**
 * @see HttpServlet#doGet(HttpServletRequest request,
HttpServletResponse response)
 */
protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
    // TODO Auto-generated method stub
    //response.getWriter().append("Served at:
").append(request.getContextPath());

    response.setContentType("text/html");
    PrintWriter pw = response.getWriter();
    int fact = 1;

    String s = request.getParameter("n1");
    int i = Integer.parseInt(s);

    for(int f=1; f<=i; f++) {

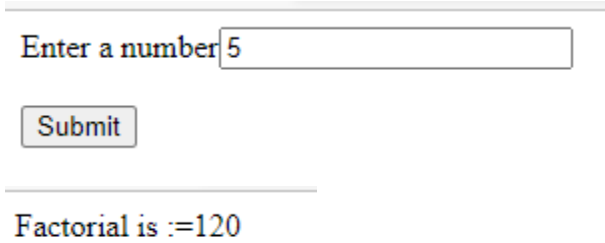
        fact = fact *f;
    }

    pw.println("Factorial is :="+fact);

}

/**
 * @see HttpServlet#doPost(HttpServletRequest request,
HttpServletResponse response)
 */
protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
    // TODO Auto-generated method stub
    doGet(request, response);
}
}

```

<b>SnapShot</b>	
<b>Q-2</b>	<b>Odd-Even</b>
<b>Code</b>	<b>Html File</b> <pre> &lt;!DOCTYPE html&gt; &lt;html&gt; &lt;head&gt; &lt;meta charset="ISO-8859-1"&gt; &lt;title&gt;Insert title here&lt;/title&gt; &lt;/head&gt; &lt;body&gt;   &lt;form action="oe"&gt;     Enter Number:&lt;input type="text" name="n1" /&gt;     &lt;input type="submit" value="OK" /&gt;   &lt;/form&gt; &lt;/body&gt; &lt;/html&gt; </pre>
<b>Code</b>	<b>Java File</b> <pre> import java.io.IOException; import java.io.PrintWriter;  import javax.servlet.ServletException; import javax.servlet.annotation.WebServlet; import javax.servlet.http.HttpServlet; </pre>

```

import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

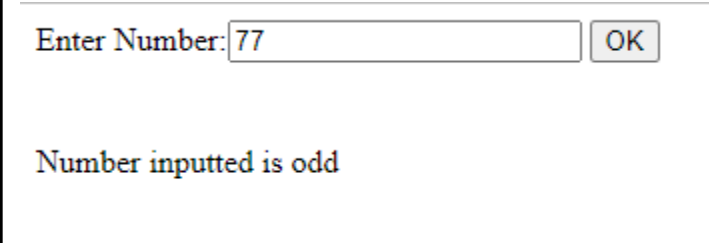
/**
 * Servlet implementation class Second
 */
@WebServlet("/oe")
public class oe extends HttpServlet {
    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public oe() {
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request,
    HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request,
    HttpServletResponse response) throws ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter pw=response.getWriter();
        String b=request.getParameter("n1");
        int c=Integer.parseInt(b);
        if(c%2==0)
        {
            pw.println("Number inputed is even");
        }
        else
        {
            pw.println("Number inputted is odd");
        }
    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request,
    HttpServletResponse response)
     */
    protected void doPost(HttpServletRequest request,
    HttpServletResponse response) throws ServletException, IOException {
        // TODO Auto-generated method stub
        doGet(request, response);
    }
}

```

	<pre>         }     } </pre>
<b>SnapShot</b>	
<b>Q-3</b>	<b>Leap Year</b>
<b>Code</b>	<b>Html File</b> <pre> &lt;!DOCTYPE html&gt; &lt;html&gt; &lt;head&gt; &lt;meta charset="ISO-8859-1"&gt; &lt;title&gt;Insert title here&lt;/title&gt; &lt;/head&gt; &lt;body&gt;     &lt;form action="ly"&gt;         Enter Number:&lt;input type="text" name="n1" /&gt;         &lt;input type="submit" value="OK" /&gt;     &lt;/form&gt; &lt;/body&gt; &lt;/html&gt; </pre>
<b>Code</b>	<b>Java File</b> <pre> import java.io.IOException; import java.io.PrintWriter;  import javax.servlet.ServletException; import javax.servlet.annotation.WebServlet; import javax.servlet.http.HttpServlet; import javax.servlet.http.HttpServletRequest; import javax.servlet.http.HttpServletResponse; </pre>

```

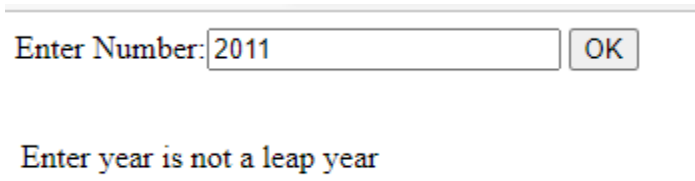
/**
 * Servlet implementation class Factorial
 */
@WebServlet("/ly")
public class ly extends HttpServlet {
    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public ly() {
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request,
    HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request,
    HttpServletResponse response) throws ServletException, IOException {
        // TODO Auto-generated method stub
        response.setContentType("text/html");
        PrintWriter pw=response.getWriter();
        String b=request.getParameter("n1");
        int c=Integer.parseInt(b);
        if(c%4==0)
        {
            pw.println("Enter year is leap year");
        }
        else
        {
            pw.println("Enter year is not a leap year");
        }
    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request,
    HttpServletResponse response)
     */
    protected void doPost(HttpServletRequest request,
    HttpServletResponse response) throws ServletException, IOException {
        // TODO Auto-generated method stub
        doGet(request, response);
    }
}

```

	<pre>} </pre>
<b>SnapShot</b>	
<b>Q-4</b>	<b>Fibonacci Series</b>
<b>Code</b>	<b>Html File</b> <pre> &lt;!DOCTYPE html&gt; &lt;html&gt; &lt;head&gt; &lt;meta charset="ISO-8859-1"&gt; &lt;title&gt;Insert title here&lt;/title&gt; &lt;/head&gt; &lt;body&gt;  &lt;form action="fs"&gt; Enter a number&lt;input type="text" name ="n1"/&gt; &lt;br&gt;&lt;br&gt; &lt;input type="submit" value="Submit"/&gt;  &lt;/form&gt;  &lt;/body&gt; &lt;/html&gt; </pre>
<b>Code</b>	<b>Java File</b> <pre> import java.io.IOException; import java.io.PrintWriter; </pre>

```

import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

/**
 * Servlet implementation class fs
 */
@WebServlet("/fs")
public class fs extends HttpServlet {
    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public fs() {
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request,
    HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request,
    HttpServletResponse response) throws ServletException, IOException {
        // TODO Auto-generated method stub
        //response.getWriter().append("Served at:
    ").append(request.getContextPath());
        response.setContentType("text/html");
        PrintWriter pw = response.getWriter();

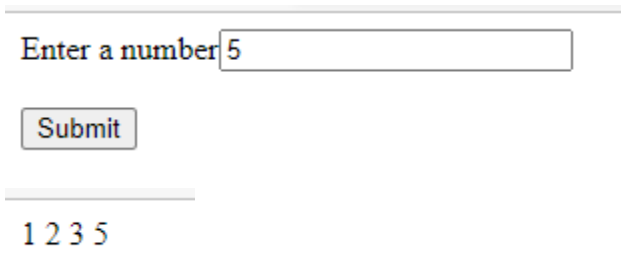
        String s1 = request.getParameter("n1");
        try {
            int num = Integer.parseInt(s1);
            int n1=0,n2=1,n3;

            for(int i =2; i<=num; i++) {

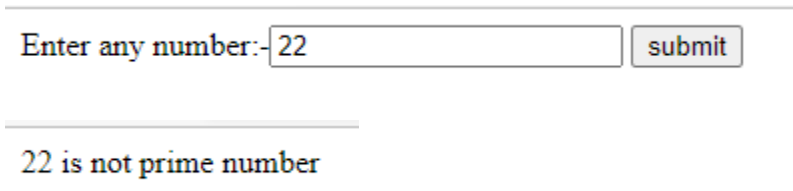
                n3 = n1+n2;
                pw.println(""+n3);
                n1=n2;
                n2=n3;
            }
        } catch (NumberFormatException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }
    }
}

```



	<pre>         }          }          catch(Exception e ) {              pw.println(e);          }      }      /**      * @see HttpServlet#doPost(HttpServletRequest request,      HttpServletResponse response)      */     protected void doPost(HttpServletRequest request,      HttpServletResponse response) throws ServletException, IOException {         // TODO Auto-generated method stub         doGet(request, response);     }  } </pre>
<b>SnapShot</b>	
<b>Q-5</b>	<b>Prime or Not</b>
<b>Code</b>	<b>Html File</b>  <pre> &lt;!DOCTYPE html&gt; &lt;html&gt; </pre>

	<pre> &lt;head&gt; &lt;meta charset="ISO-8859-1"&gt; &lt;title&gt;Insert title here&lt;/title&gt; &lt;/head&gt; &lt;form action="prime"&gt; Enter any number:-&lt;input type="text" name="n1"/&gt; &lt;input type="submit" value="submit"/&gt; &lt;/form&gt; &lt;/html&gt; </pre>
<b>Code</b>	<p><b>Java File</b></p> <pre> import java.io.IOException; import java.io.PrintWriter; import javax.servlet.ServletException; import javax.servlet.annotation.WebServlet; import javax.servlet.http.HttpServlet; import javax.servlet.http.HttpServletRequest; import javax.servlet.http.HttpServletResponse; /**  * Servlet implementation class prime  */ @WebServlet("/prime") public class prime extends HttpServlet {     private static final long serialVersionUID = 1L;      /**      * @see HttpServlet#HttpServlet()      */     public prime() {         super();         // TODO Auto-generated constructor stub     }      /**      * @see HttpServlet#doGet(HttpServletRequest request,     HttpServletResponse response)      */     protected void doGet(HttpServletRequest request,         HttpServletResponse response) throws ServletException,         IOException {         response.setContentType("text/html");         PrintWriter pw = response.getWriter();         int i,m=0,flag=0;         int n=Integer.parseInt(request.getParameter("n1")); </pre>

	<pre> m=n/2; if(n==0  n==1){ pw.println(n+" is not prime number"); }else{ for(i=2;i&lt;=m;i++){ if(n%i==0){ pw.println(n+" is not prime number"); flag=1; break; } } if(flag==0) { pw.println(n+" is prime number"); } } } /**  * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)  */ protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException { // TODO Auto-generated method stub doGet(request, response); } } </pre>
<b>SnapShot</b>	
<b>Q-6</b>	<b>Program to Create Servlet Without html File and Print Your Name</b>
<b>Code</b>	<b>Java File</b>  <pre> import java.io.IOException; import java.io.PrintWriter; </pre>

```
import javax.servlet.ServletException; import
javax.servlet.annotation.WebServlet; import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest; import
javax.servlet.http.HttpServletResponse;

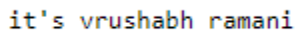
/**
 * Servlet implementation class t1
 */ @WebServlet("/t1")
public class t1 extends HttpServlet {
    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public t1() { super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request,
    HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse
    response) throws ServletException, IOException
    {
        // TODO Auto-generated method stub
        //response.getWriter().append("Served at:
        ").append(request.getContextPath());

        PrintWriter pw =response.getWriter(); pw.println("it's vrushabh ramani");
    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request,
    HttpServletResponse response)
     */
    protected void doPost(HttpServletRequest request, HttpServletResponse
    response) throws ServletException, IOException
    {
        // TODO Auto-generated method stub doGet(request, response);
    }
}
```

	<pre> }  } </pre>
<b>SnapShot</b>	
<b>Q-7</b>	<b>Create a snippet where a one html file,label,textbox and submit button Fetch data from html</b>
<b>Code</b>	<p><b>Html File</b></p> <pre> &lt;!DOCTYPE html&gt; &lt;html&gt; &lt;head&gt; &lt;meta charset="UTF-8"&gt; &lt;title&gt;Insert title here&lt;/title&gt; &lt;/head&gt; &lt;body&gt; &lt;form action="P2"&gt;  Enter Name &lt;input type="text" name = "n1" /&gt;  &lt;br&gt;&lt;br&gt; &lt;input type="submit" value="Submit"&gt;  &lt;/form&gt;  &lt;/body&gt; &lt;/html&gt; </pre>
<b>Code</b>	<p><b>Java File</b></p> <pre> import java.io.IOException; import java.io.PrintWriter;  import javax.servlet.ServletException; import javax.servlet.annotation.WebServlet; import javax.servlet.http.HttpServlet; import javax.servlet.http.HttpServletRequest; import javax.servlet.http.HttpServletResponse; </pre>

```

        /**
    *      Servlet implementation class P2
    */ @WebServlet("/P2")
    public class p2 extends HttpServlet {
    private static final long serialVersionUID = 1L;

    /**
    *      @see HttpServlet#HttpServlet()
    */
    public p2() { super();
    // TODO Auto-generated constructor stub
    }

    /**
    *      @see HttpServlet#doGet(HttpServletRequest request,
    HttpServletResponse response)
    */
    protected void doGet(HttpServletRequest request, HttpServletResponse
    response) throws ServletException, IOException
    {
    // TODO Auto-generated method stub

    //response.getWriter().append("Served at:
    ").append(request.getContextPath());

    response.setContentType("text/html"); PrintWriter pw =
    response.getWriter(); String s = request.getParameter("n1");
    pw.println("Name is : " +s);

    }

    /**
    *      @see HttpServlet#doPost(HttpServletRequest request,
    HttpServletResponse response)
    */

    protected void doPost(HttpServletRequest request,
    HttpServletResponse response) throws ServletException, IOException
    {
    // TODO Auto-generated method stub doGet(request, response);
    }

    }

```

<b>SnapShot</b>	<p>Enter Name <input type="text" value="VRUSHABH RAMANI"/></p> <p><input type="submit" value="Submit"/></p> <p>Name is :VRUSHABH RAMANI</p>
<b>Q-8</b>	<b>Write a program to servlet rollno,name and percentage</b>
<b>Code</b>	<p><b>Html File</b></p> <pre> &lt;!DOCTYPE html&gt; &lt;html&gt; &lt;head&gt; &lt;meta charset="UTF-8"&gt; &lt;title&gt;Insert title here&lt;/title&gt; &lt;/head&gt; &lt;body&gt; &lt;form action="t3"&gt;  Enter Roll No :&lt;input type="text" name = "n1"/&gt; &lt;br&gt;&lt;br&gt; Enter Name : &lt;input type="text" name = "n2"/&gt; &lt;br&gt;&lt;br&gt; Enter Percentage :&lt;input type="text" name = "n3"/&gt; &lt;br&gt;&lt;br&gt; &lt;input type="submit" value="Submit"&gt;   &lt;/form&gt; &lt;/body&gt; &lt;/html&gt; </pre>
<b>Code</b>	<p><b>Java File</b></p> <pre> import java.io.IOException; import java.io.PrintWriter;  import javax.servlet.ServletException; import javax.servlet.annotation.WebServlet; import javax.servlet.http.HttpServlet; import javax.servlet.http.HttpServletRequest; import </pre>

```

javax.servlet.http.HttpServletResponse;

    /**
    * Servlet implementation class P3
    */ @WebServlet("/t3")
    public class t3 extends HttpServlet {
    private static final long serialVersionUID = 1L;

    /**
    * @see HttpServlet#HttpServlet()
    */
    public t3() { super();
    // TODO Auto-generated constructor stub
    }

    /**
    * @see HttpServlet#doGet(HttpServletRequest request,
    HttpServletResponse response)
    */
    protected void doGet(HttpServletRequest request, HttpServletResponse
    response) throws ServletException, IOException
    {
    // TODO Auto-generated method stub

    //response.getWriter().append("Served at:
    ").append(request.getContextPath());

    response.setContentType("text/html"); PrintWriter pw =
    response.getWriter(); String s1 = request.getParameter("n1"); String s2 =
    request.getParameter("n2"); String s3 = request.getParameter("n3");

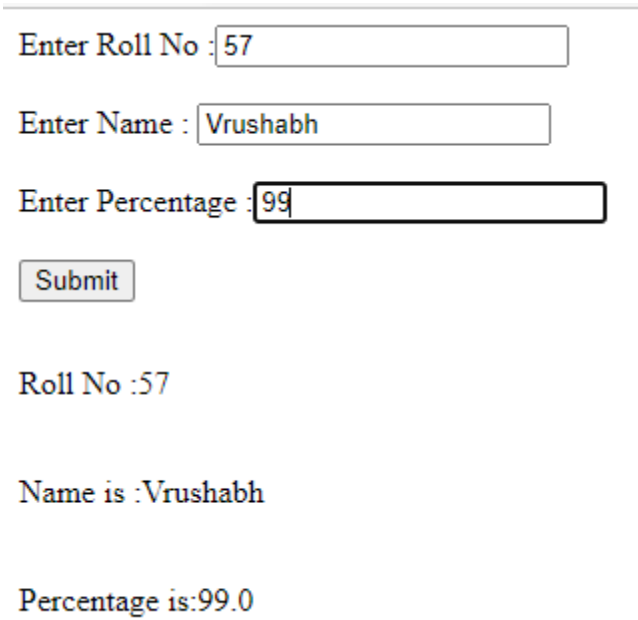
    float f1 = Float.parseFloat(s3); pw.println("Roll No :"+s1);
    pw.println("<br><br><br>Name is :"+s2);
    pw.println("<br><br><br>Percentage is:"+f1);

    }

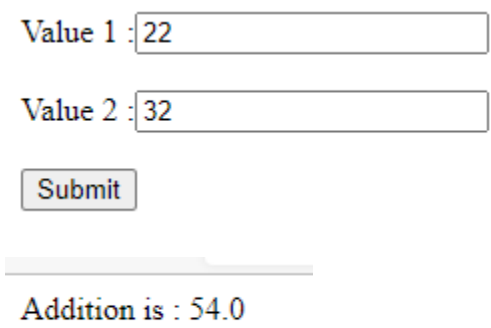
    /**
    * @see HttpServlet#doPost(HttpServletRequest request,
    HttpServletResponse response)
    */
    protected void doPost(HttpServletRequest request, HttpServletResponse
    response) throws ServletException, IOException
    {
    // TODO Auto-generated method stub doGet(request, response);
    }

```



	}
<b>SnapShot</b>	 <p>Enter Roll No : 57</p> <p>Enter Name : Vrushabh</p> <p>Enter Percentage : 99</p> <p>Submit</p> <p>Roll No :57</p> <p>Name is :Vrushabh</p> <p>Percentage is:99.0</p>
<b>Q-9</b>	<b>Take two textbox and perform addition operation use float or double</b>
<b>Code</b>	<b>Html File</b> <pre> &lt;!DOCTYPE html&gt; &lt;html&gt; &lt;head&gt; &lt;meta charset="UTF-8"&gt; &lt;title&gt;Insert title here&lt;/title&gt; &lt;/head&gt; &lt;body&gt; &lt;form action="p4"&gt; Value 1 :&lt;input type = "text" name = "n1" /&gt; &lt;br&gt;&lt;br&gt; Value 2 :&lt;input type = "text" name = "n2" /&gt;  &lt;br&gt;&lt;br&gt; &lt;input type="submit" value ="Submit" &gt; </pre>

	<pre> &lt;/form&gt; &lt;/body&gt; &lt;/html&gt; </pre>
<b>Code</b>	<p><b>Java File</b></p> <pre> import java.io.IOException; import java.io.PrintWriter;  import javax.servlet.ServletException; import javax.servlet.annotation.WebServlet; import javax.servlet.http.HttpServlet; import javax.servlet.http.HttpServletRequest; import javax.servlet.http.HttpServletResponse;  /**  * Servlet implementation class p4  */ @WebServlet("/p4") public class p4 extends HttpServlet { private static final long serialVersionUID = 1L;  /**  * @see HttpServlet#HttpServlet()  */ public p4() { super(); // TODO Auto-generated constructor stub }  /**  * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)  */ protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException { // TODO Auto-generated method stub //response.getWriter().append("Served at: ").append(request.getContextPath()); response.setContentType("text/html");  PrintWriter pw = response.getWriter(); String s1 = request.getParameter("n1"); String s2 = request.getParameter("n2");  float f1 = Float.parseFloat(s1); float f2 = Float.parseFloat(s2);  float sum = f1 + f2; pw.println("Addition is : "+sum); </pre>

	<pre> }  /**  * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)  */ protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException { // TODO Auto-generated method stub doGet(request, response); }  } </pre>
<b>SnapShot</b>	
<b>Q-10</b>	<b>Prepare mini calculator</b>
<b>Code</b>	<p><b>Html File</b></p> <pre> &lt;!DOCTYPE html&gt; &lt;html&gt; &lt;head&gt; &lt;meta charset="ISO-8859-1"&gt; &lt;title&gt;Insert title here&lt;/title&gt; &lt;/head&gt; &lt;body&gt; &lt;form action="P5"&gt; Number 1 - &amp;nbsp;&lt;input type="text" name="n1"/&gt;&lt;br&gt;&lt;br&gt; Number 2 - &amp;nbsp;&lt;input type="text" name="n2"/&gt;&lt;br&gt;&lt;br&gt;&lt;br&gt; </pre>

	<p>Operator</p> <pre> &lt;select name="op"&gt;  &lt;option value="Addition"&gt;Addition&lt;/option&gt; &lt;option value="Subtraction"&gt;Subtraction&lt;/option&gt; &lt;option value="multiplication"&gt;multiplication&lt;/option&gt; &lt;option value="division"&gt;division&lt;/option&gt; &lt;/select&gt;  &lt;input type="submit" value="Calculate"/&gt; &lt;/form&gt; &lt;/body&gt; &lt;/html&gt; </pre>
<b>Code</b>	<p><b>Java File</b></p> <pre> import java.io.IOException; import java.io.PrintWriter;  import javax.servlet.ServletException; import javax.servlet.annotation.WebServlet; import javax.servlet.http.HttpServlet; import javax.servlet.http.HttpServletRequest; import javax.servlet.http.HttpServletResponse;  /**  * Servlet implementation class Q4  */ @WebServlet("/P5") public class P5 extends HttpServlet {     private static final long serialVersionUID = 1L;      /**      * @see HttpServlet#HttpServlet()      */     public P5() { super();         // TODO Auto-generated constructor stub     }      /**      * @see HttpServlet#doGet(HttpServletRequest request,     HttpServletResponse response)      */     protected void doGet(HttpServletRequest request, HttpServletResponse     response) throws ServletException, IOException     {         // TODO Auto-generated method stub     } </pre>

```

//response.getWriter().append("Served at:
").append(request.getContextPath());
PrintWriter out = response.getWriter();

        String num1 = request.getParameter("n1"); String num2 =
request.getParameter("n2"); String op = request.getParameter("op"); switch
(op) {
case "Addition":
out.println("Answer = "+(Double.parseDouble(num1) +
Double.parseDouble(num2)));
break;
case "Subtraction":
out.println("Answer = "+(Double.parseDouble(num1) -
Double.parseDouble(num2)));
break;
case "multiplication":
out.println("Answer = "+(Double.parseDouble(num1) *
Double.parseDouble(num2)));
break; default:
out.println("Answer = "+(Double.parseDouble(num1) /
Double.parseDouble(num2)));
break;
}

}

/**
 * @see HttpServlet#doPost(HttpServletRequest request,
HttpServletResponse response)
 */
protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException
{
// TODO Auto-generated method stub doGet(request, response);
}

}

```

## SnapShot

Number 1 -

Number 2 -

Operator



Answer = 117.0

---

Number 1 -

Number 2 -

Operator



Answer = 9.0

Number 1 -

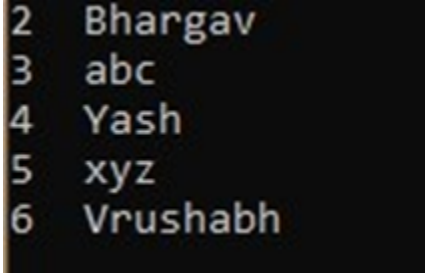
Number 2 -

Operator



Answer = 32.0

	<p>Number 1 - <input type="text" value="512"/></p> <p>Number 2 - <input type="text" value="8"/></p> <p>Operator <input type="text" value="division"/> <input type="button" value="Calculate"/></p> <p>Answer = 64.0</p>
<b>Q-11</b>	<p><b>Create a Database with emp and fields are empid, empname, leave,salary.</b></p> <p><b>Perform the operation using JDBC . Use Create Statement and show all the records in the Command prompt . At least 5 records need to be displayed.</b></p>
<b>Code</b>	<p><b>Java File</b></p> <pre> import java.sql.*; class J57 {     public static void main(String[] args)     {         try         {             Class.forName("com.mysql.jdbc.Driver");             Connection con=DriverManager.getConnection ("jdbc:mysql://localhost:3306/test","root","");             Statement stat=con.createStatement();             ResultSet rs=stat.executeQuery("Select * from emp1");             while(rs.next())             {                 System.out.println("Empid is :"+rs.getInt(1));                 System.out.println("EmpName is :"+rs.getString(2));                 System.out.println("leave is :"+rs.getInt(3));                 System.out.println("salary is :"+rs.getInt(4)); System.out.println("\n");             }         }         catch (Exception e)         {             e.printStackTrace();         }     } } </pre>

	<pre>         }     }      catch(Exception e)     {         System.out.println(e);     } } </pre>
<b>SnapShot</b>	
<b>Q-12</b>	<b>Perform JDBC operation using prepared statement and perform different cases like</b>
<b>Code</b>	<p><b>Java File [Insert]</b></p> <pre> import java.sql.*; import java.util.*; import java.util.regex.*;  public class v_insert {     public static boolean chkMail(String email)     {         String regex = "^(.+)@(.+)\$";         Pattern ptrn = Pattern.compile(regex);          if(email==null)         {             return false;         }     } } </pre>



```

        return ptrn.matcher(email).matches();
    }

    public static void main(String[] args)
    {
        try
        {
            Scanner s1 = new Scanner(System.in);
            System.out.print("\nInsert Record\n");
            System.out.print("\nEnter RollNo. : "); int rollno =
s1.nextInt();
            System.out.print("\nEnter Name : "); String name = s1.next();
            System.out.print("\nEnter Mobile No. : "); Long mobile_no =
s1.nextLong();
            String mno = String.valueOf(mobile_no);

            if(mno.length()>10 || mno.length()<10)
            {
                System.out.println("\nMobile Number is invalid ");
                System.exit(0);
            }

            Scanner s2 = new Scanner(System.in);
            System.out.print("\nEnter Email : ");
            String email_id = s2.nextLine();

            if(chkMail(email_id)==false)
            {
                System.out.println("\nEmail Address is not valid");
                System.exit(0);
            }

            System.out.print("\nEnter Percentage : "); double percentage
= s1.nextDouble();
            Class.forName("com.mysql.jdbc.Driver");
            Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/test","root","");
            String sql = "insert into
student(rollno,name,mobile_no,email_id,percentage) values(?,?,?,?,?)";
            PreparedStatement ps = con.prepareStatement(sql);
            ps.setInt(1,rollno);
            ps.setString(2,name);
            ps.setLong(3,mobile_no);
            ps.setString(4,email_id);
            ps.setDouble(5,percentage);

```

```

        int rowsInserted = ps.executeUpdate();

        if(rowsInserted == 1)
        {
            System.out.println("\nRecord Inserted");
        }
    }
    catch(Exception e)
    {
        e.printStackTrace();
    }
}

```

### Snapshot

rollno	name	mobile_no	email_id	percentage
1	vrushabh	9313609273	vramani111@gmail.com	90
2	darshan	8140703510	dgabu@gmail.com	70
3	om	8511603510	ogohel123@gmail.com	50
4	jigo	6353351850	jigo@gmail.com	80
5	vivek	9998181217	vivek@gmail.com	77

Insert Record

Enter RollNo. : 1

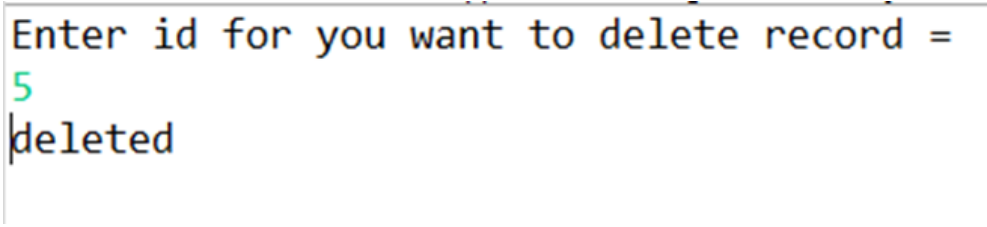
Enter Name : bhavik

Enter Mobile No. : 999888

|

Mobile Number is invallid

	<pre> Insert Record Enter RollNo. : 1 Enter Name : bhargav Enter Mobile No. : 9586295002  Enter Email : bvekariyagmail.com   Email Address is not valid </pre>
<b>Code</b>	<p><b>Java File [Delete]</b></p> <pre> import java.sql.*; import java.util.Scanner;  class delete_scanner {     public static void main(String arg[])     {         Scanner sc = new Scanner(System.in);          System.out.println("Enter id for you want to delete record = "); int rollno=sc.nextInt(); </pre>

	<pre> String q = "delete from student where rollno="+rollno+" ";  try {     Class.forName("com.mysql.jdbc.Driver");      Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/test","r oot","");      PreparedStatement st = con.prepareStatement(q);      st.executeUpdate();      System.out.println("deleted ");  } catch(Exception e) {     System.out.println(e); } } </pre>
<b>SnapShot</b>	

rollno	name	mobile_no	email_id	percentage
1	vrushabh	9313609273	vramani111@gmail.com	90
2	darshan	8140703510	dgabu@gmail.com	70
3	om	8511603510	ogohel123@gmail.com	50
4	jigo	6353351850	jigo@gmail.com	80

## Code

## Java File [Update]

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;

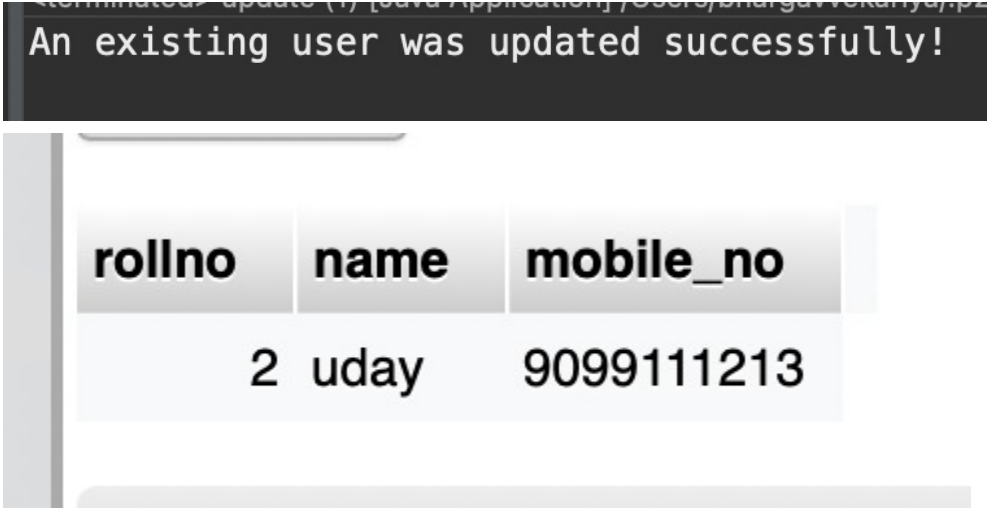
public class update
{
    public static void main(String[] args)
    {
        String dbURL = "jdbc:mysql://localhost:3306/test";
        String username = "root";
        String password = "";

        try (Connection conn =
DriverManager.getConnection(dbURL, username, password))
        {

            String sql = "UPDATE student SET rollno=?,
name=?, mobile_no=? where rollno=3";

            PreparedStatement statement =
conn.prepareStatement(sql);
            statement.setInt(1,33);
            statement.setString(2, "uday");
            statement.setString(3,"9099111213");

            int rowsUpdated = statement.executeUpdate();
            if (rowsUpdated > 0)
            {
```

	<pre> System.out.println("An existing user was updated successfully!");     }      } catch (SQLException ex) {         ex.printStackTrace();     } } </pre>
<b>SnapShot</b>	
<b>Q-13</b>	<b>write a program which have 3 radio button and user click 1st radio button screen should be colorful .</b>
<b>Code</b>	<p><b>Html File</b></p> <pre> &lt;!DOCTYPE html&gt;  &lt;html&gt;  &lt;body &gt;  &lt;form action="background"&gt; </pre>

	<pre>         &lt;input type="submit" name="red" value="Red"&gt;         &lt;input type="submit" name="green" value="Green"&gt;         &lt;input type="submit" name="blue" value="Blue"&gt;     &lt;/form&gt; &lt;/body&gt; &lt;/html&gt; </pre>
<b>Code</b>	<p><b>Java File</b></p> <pre> import java.io.I OExcept ion; import java.io.P rintWrite r;  import javax.servlet.ServletException; import javax.servlet.annotation.W ebServlet; import javax.servlet.http.HttpServlet; import javax.servlet.http.HttpServlet Request; import javax.servlet.http.HttpServlet Response;  /**  * Servlet implementation class background  */ @WebServlet ("/backgroun </pre>

d")

```
public class background
extends HttpServlet { private
static final long
serialVersionUID = 1L;
```

```
/**
```

```
 * @see HttpServlet#HttpServlet()
```

```
 */
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    )
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    ;
```

```
// TODO Auto-generated constructor stub
```



```

    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request,
    HttpServletResponse response)
     */

    protected void doGet(HttpServletRequest request,
    HttpServletResponse response) throws ServletException, IOException {

        //response.getWriter().ap
pend("Served at:
").append(request.getContextPath());
        response.setContentType("text/html");
        PrintWriter pw =
        response.getWriter();

        String red =
        request.getParameter("red");
        String green =
        request.getParameter("green")
        ; String blue =
        request.getParameter("blue");

        if(red != null)
        {
            pw.print("<body style='background-color:red;/>");
        }
        else if(blue != null)
        {

        }
    }

```

```
else  
{
```

```
}
```

```
pw.print("<body style='background-color:blue;'>");
```

```
pw.print("<body style='background-color:green;'>");
```

```
}
```

```
/**
```

```
 * @see HttpServlet#doPost(HttpServletRequest request,  
  HttpServletResponse response)
```

```
 */
```

```
protected void doPost(HttpServletRequest request,  
  HttpServletResponse response) throws ServletException, IOException {
```

```
    // TODO
```

```
    Auto-generated  
    method stub  
    doGet(request,  
    response);
```

```
}
```

	}
Snapshot	<div>RedGreenBlue</div> <div></div> <div></div> <div></div>

<b>Q-14</b>	<b>write a program which have 3 radio button and user click 1st radio button screen should be colorful .</b>
<b>Code</b>	<b>Html File</b> <pre> &lt;!DOCTYPE html&gt;  &lt;html&gt; &lt;head&gt; &lt;meta charset="ISO-8859-1"&gt; &lt;title&gt;Background changing website&lt;/title&gt; &lt;/head&gt; &lt;body&gt;     &lt;form action="C1"&gt;         Name&lt;input type="text" /&gt;&lt;br&gt;&lt;br&gt;         red&lt;input type="radio" name="col"         value="red" /&gt; blue&lt;input         type="radio" name="col"         value="blue" /&gt;          green&lt;input type="radio" name="col" value="green" /&gt;&lt;br&gt;&lt;br&gt;          &lt;input type="submit" value="submit" /&gt;     &lt;/form&gt; &lt;/body&gt; </pre>
<b>Code</b>	<b>Java File</b> <pre> import java.io.I OExcept ion; import java.io.P rintWrite r;  import javax.servlet.ServletException </pre>

```

ion; import
javax.servlet.annotation.W
ebServlet; import
javax.servlet.http.HttpServlet;
import
javax.servlet.http.HttpServlet
Request; import
javax.servlet.http.HttpServlet
Response;

/**
 * Servlet implementation class C1
 */
@WebServlet
public class C1 extends HttpServlet {

    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    p

```

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```
// TODO Auto-generated constructor stub
```

```
}
```

```
/**
```

```
 * @see HttpServlet#doGet(HttpServletRequest request,  
  HttpServletResponse response)
```

```
 */
```

```
protected void doGet(HttpServletRequest request,  
  HttpServletResponse response) throws ServletException, IOException {
```

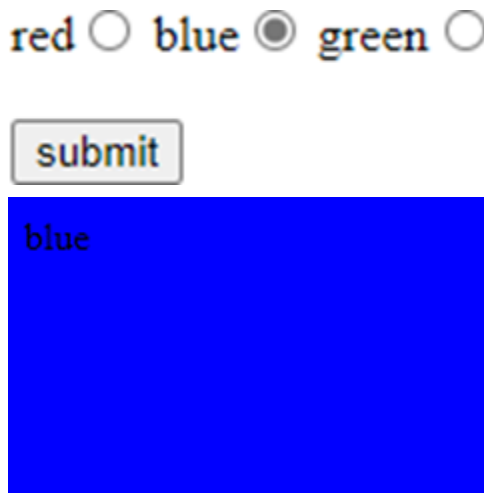
```
    // TODO Auto-generated method stub  
    response.setContentType("text/html");
```

```
    PrintWriter  
    pw=response.getWri  
    ter(); String  
    a=request.getParame
```

	<pre>ter("col"); String b="red"; S t r i n g c = " b l u e " ; p w . p r i n t l n ( a ) ; i f ( a . e q u a</pre>
--	--

	<pre>l s ( b ) )  {      pw.println("&lt;body style='background-color:red;'&gt;"); } else if(a.equals(c)) {  }  else {  }  }  pw.println("&lt;body style='background-color:blue;'&gt;");  pw.println("&lt;body style='background-color:green;'&gt;");  /**  * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)  */  protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {</pre>
--	---



	<pre>// TODO Auto-generated method stub doGet(request, response);  }  }</pre>
<b>SnapShot</b>	 <p>The screenshot shows a web form with three radio buttons labeled 'red', 'blue', and 'green'. The 'blue' radio button is selected. Below the buttons is a 'submit' button. Underneath the submit button is a solid blue rectangular area, likely representing the image being displayed.</p>
<b>Q-15</b>	<b>write a program to display image on browser</b>
<b>Code</b>	<p><b>Java File</b></p> <pre>import java.io.BufferedInpu tStream; import java.io.BufferedOut putStream; import java.io.FileInputStre am; import java.io.IOException ;</pre>

```

import
javax.servlet.ServletException
ion; import
javax.servlet.ServletOutput
Stream; import
javax.servlet.annotation.W
ebServlet; import
javax.servlet.http.HttpServlet
et;
import
javax.servlet.http.HttpServlet
Request; import
javax.servlet.http.HttpServlet
Response;

/**

 * Servlet implementation class image
 */
@Web
Servlet
("/image")

public class image extends HttpServlet {

    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
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;

// TODO Auto-generated constructor stub

}

/**
 * @see HttpServlet#doGet(HttpServletRequest request,
HttpServletResponse response)
 */

protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
    // TODO Auto-generated method stub

    response.setContentType
("image/jpeg");
    ServletOutputStream os;
    os = response.getOutputStream();

    FileInputStream fl = new FileInputStream("E:\\logo.png");
```

```
BufferedInputStream bfl = new BufferedInputStream(f1);  
BufferedOutputStream bo = new  
BufferedOutputStream(os);
```

```
int c = 0 ;
```

```
    while(  
        e(  
            c  
            =  
            bfl.  
            read  
            ())  
            !=  
            -1  
        )  
    {  
        bo.  
        write  
        e(  
            c);  
    }
```


```
bfl.close();
```

```
f1.close();
```

```
bo.close();
```

```
os.close();
```

```
//response.getWriter().ap
```

	<pre>pend("Served at: ").append(request.getContextPath());  }  /**  * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)  */ protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {     // TODO     Auto-generated     method stub     doGet(request, response); }  }</pre>
<b>SnapShot</b>	

<b>Q-15</b>	<b>write a program to generate a student form the fields are rlno,name,mobile no., email-id,gender and city and submit button ,database connectivity</b>
<b>Code</b>	<b>Html File</b> <pre> &lt;!DOCTYPE html&gt;  &lt;html&gt; &lt;head&gt; &lt;meta charset="ISO-8859-1"&gt; &lt;title&gt;Insert title here&lt;/title&gt; &lt;/head&gt; &lt;body&gt; &lt;form action="First"&gt; Roll No:&lt;input name="roll" type="number"/&gt;&lt;br&gt;&lt;br&gt; Name:&lt;input name="name" type="text" /&gt;&lt;br&gt;&lt;br&gt; Mobile No:&lt;input name="mno" type="text"/&gt;&lt;br&gt;&lt;br&gt; Email-Id:&lt;input name="email" type="email" /&gt;&lt;br&gt;&lt;br&gt; Gender: Male&lt;input name="ge" type="radio" value="male" /&gt; Female&lt;input name="ge" type="radio" value="female" /&gt;&lt;br&gt;&lt;br&gt; City:&lt;input name="city" type="text"/&gt;&lt;br&gt;&lt;br&gt;  &lt;input type="submit" value="Submit" /&gt;  &lt;/form&gt; &lt;/body&gt; &lt;/html&gt; </pre>
<b>Code</b>	<b>Java File</b> <pre> import java.io.I OExcept ion; </pre>

```

import
java.sql.
*;
import
javax.servlet.ServletException
ion; import
javax.servlet.annotation.W
ebServlet; import
javax.servlet.http.HttpServlet
et;

import javax.servlet.http.HttpServletRequest;

import
javax.servlet.http.HttpServlet
Response; import
java.io.PrintWriter;

@WebServlet("/First")

public class First extends HttpServlet {
    private static final long serialVersionUID = 1L;

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;  
  
}
```

```
protected void doGet(HttpServletRequest request,  
HttpServletResponse response) throws ServletException, IOException {
```

```
    response.setContentType  
("text/html"); String  
id=request.getParameter("r  
oll");
```

```
    int i=Integer.parseInt(id);
```

```
    String  
n=request.getParameter  
("name"); String  
m=request.getParamete  
r("mno"); String  
e=request.getParameter  
("email"); String  
g=request.getParameter  
("ge"); String  
c=request.getParameter  
("city");
```

```
    PrintWriter  
pw=response.getWr  
iter(); try
```

```
{
```

```
    Class.forName("com.mysql.jdbc.Driver");  
    Connection
```



```
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/test","root","");
```

PreparedStatement

```
ps=con.prepareStatement("insert into  
emp(rollno,name,mobilenumber,email,gender,city) values  
(?,?,?,?,?,?)");
```

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	<div>s . s e t S t r i n g ( 3 , m ) ; p s . s e t S t r i n g ( 4 , e ) ; p s . s e</div>
--	--

	<pre>t S t r i n g ( 5 , g ) ; p s . s e t S t r i n g ( 6 , c ) ; int aa=ps.executeUp date(); if(aa&gt;0) {                                 pw.println("Your data is inserted</pre>
--	--

	<pre>                successfully");             }          }         catch(Exception ee)         {             pw.println("Error is "+ee);         }     }     protected void doPost(HttpServletRequest request,         HttpServletResponse response) throws ServletException, IOException {          doGet(request, response);      }  }</pre>
<b>SnapShot</b>	<div><div></div><div>Roll No: <input type="text" value="1"/></div><div>Name: <input type="text" value="jigo"/></div><div>Mobile No: <input type="text" value="852096374"/></div><div>Email-Id: <input type="text" value="jigo@gmail.com"/></div><div>Gender: Male <input checked="" type="radio"/> Female <input type="radio"/></div><div>City: <input type="text" value="rajkot"/></div><div><input type="button" value="Submit"/></div><div></div><div>Your data is inserted successfully</div></div>

	<div>Options</div> <table><tr><th>rollno</th><th>name</th><th>mobilen</th><th>email</th><th>gender</th><th>city</th></tr><tr><td>1</td><td>jigo</td><td>852096374</td><td>jigo@gmail.com</td><td>male</td><td>rajkot</td></tr><tr><td>2</td><td>pako</td><td>963852741</td><td>pako@gmail.com</td><td>male</td><td>diu</td></tr><tr><td>3</td><td>bhano</td><td>789456123</td><td>bhao@gmail.com</td><td>male</td><td>goa</td></tr></table>	rollno	name	mobilen	email	gender	city	1	jigo	852096374	jigo@gmail.com	male	rajkot	2	pako	963852741	pako@gmail.com	male	diu	3	bhano	789456123	bhao@gmail.com	male	goa
rollno	name	mobilen	email	gender	city																				
1	jigo	852096374	jigo@gmail.com	male	rajkot																				
2	pako	963852741	pako@gmail.com	male	diu																				
3	bhano	789456123	bhao@gmail.com	male	goa																				
Q-16	Life Cycle																								
Code	<div>Java File</div> <pre>import java.io.I OExcept ion; import java.io.P rintWrite r;  import javax.servlet.Servlet Config; import javax.servlet.Servlet Exception; import javax.servlet.annotation.W ebServlet; import javax.servlet.http.HttpServl et; import javax.servlet.http.HttpServlet Request; import</pre>																								

```

javax.servlet.http.HttpServlet
Response;

/**

 * Servlet implementation class Life_cycle
 */
@WebServlet(
    let("/Life_
cycle")

public class Life_cycle extends HttpServlet {

    private static final long serialVersionUID = 1L;

    /**

 * @see HttpServlet#HttpServlet()
 */
    p
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        )
        ;

// TODO Auto-generated constructor stub

    }

    /**
     * @see Servlet#init(ServletConfig)
     */
    public void init(ServletConfig config) throws ServletException {

        System.out.println("init method");
    }

    /**
     * @see Servlet#destroy()
     */
    public void destroy() {

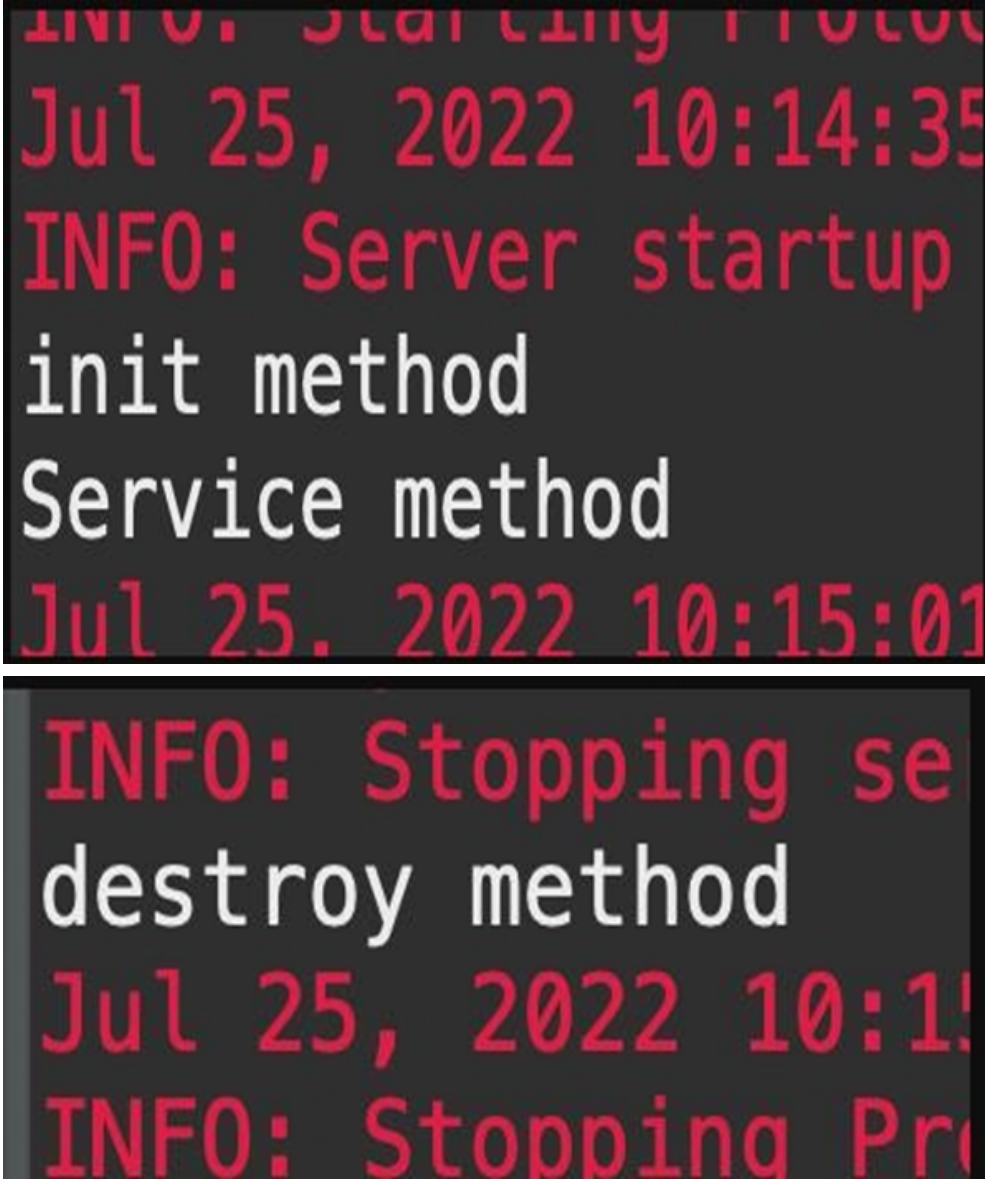
        System.out.println("destroy method");
    }

    /**
     * @see HttpServlet#service(HttpServletRequest request,
    HttpServletResponse response)
     */
    protected void service(HttpServletRequest request,

```

	<pre>HttpServletResponse response) throws ServletException, IOException {      System.out.println("Service method");  }  /**  * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)  */ protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {      response.setContentType("text/html");     PrintWriter     pw=response.getWriter();     pw.println("service");  }  }</pre>
--	---



<b>SnapShot</b>	
<b>Q-17</b>	<b>Connectivity</b>
<b>Code</b>	<b>Html File</b>  <pre> &lt;!DOCTYPE html&gt; &lt;html&gt; &lt;head&gt; &lt;meta charset="ISO-8859-1"&gt; </pre>

	<pre> &lt;title&gt;First using the Radio button&lt;/title&gt; &lt;/head&gt; &lt;body&gt;     &lt;form action="First"&gt;         Insert&lt;input type="radio" name="q" value="i"/&gt;         Update&lt;input type="radio" name="q" value="u"/&gt;         Delete&lt;input type="radio" name="q" value="d"/&gt;         Select&lt;input type="radio" name="q" value="s"/&gt;&lt;br&gt;&lt;br&gt;         &lt;input type="submit" value="submit" /&gt;     &lt;/form&gt; &lt;/body&gt; &lt;/html&gt; </pre>
<b>Code</b>	<p><b>Web.XML File</b></p> <pre> &lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://xmlns.jcp.org/xml/ns/javaee" xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd" id="WebApp_ID" version="3.1"&gt;     &lt;display-name&gt;servlet&lt;/display-name&gt;     &lt;welcome-file-list&gt;         &lt;welcome-file&gt;index.html&lt;/welcome-file&gt;         &lt;welcome-file&gt;index.jsp&lt;/welcome-file&gt;         &lt;welcome-file&gt;index.htm&lt;/welcome-file&gt;         &lt;welcome-file&gt;default.html&lt;/welcome-file&gt;         &lt;welcome-file&gt;default.jsp&lt;/welcome-file&gt;         &lt;welcome-file&gt;default.htm&lt;/welcome-file&gt;     &lt;/welcome-file-list&gt;     &lt;servlet&gt;         &lt;servlet-name&gt;First&lt;/servlet-name&gt;         &lt;servlet-class&gt;First&lt;/servlet-class&gt;     &lt;/servlet&gt;      &lt;servlet-mapping&gt;         &lt;servlet-name&gt;First&lt;/servlet-name&gt;         &lt;url-pattern&gt;/First&lt;/url-pattern&gt;     &lt;/servlet-mapping&gt; &lt;/web-app&gt; </pre>
<b>Code</b>	<p><b>Java File</b></p> <pre> import java.io.IOException; import java.io.PrintWriter; </pre>

```

import java.sql.*;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@WebServlet("/First")
public class First extends HttpServlet {
    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public First() {
        super();
        // TODO Auto-generated constructor stub
    }

    protected void doGet(HttpServletRequest request,
        HttpServletResponse response) throws ServletException, IOException {
        // TODO Auto-generated method stub
        response.setContentType("text/html");
        PrintWriter pw=response.getWriter();
        String a=request.getParameter("q");
        if(a!=null)
        {
            if(a.equals("i"))
            {
                pw.println("<h1>Insert form</h1>");
                pw.println("<form action='First'>");
                pw.println("Id:<input type='text'
name='id'/><br><br>");
                pw.println("Name:<input type='text'
name='name'/><br><br>");
                pw.println("<input type='submit' name='sub'
value='submit'/><br><br>");
                String ia=request.getParameter("sub");
            }
            else if(a.equals("u"))
            {
                pw.println("<h1>Update form</h1>");
                pw.println("<form action='First'>");
                pw.println("Id:<input type='text'
name='id'/><br><br>");
                pw.println("Name:<input type='text'

```

```

name='name'/><br><br>");
                                pw.println("<input type='submit' name='sub'
value='usubmit'/><br><br>");
                                }
                                else if(a.equals("d"))
                                {
                                    pw.println("<h1>Delete form</h1>");
                                    pw.println("<form action='First'>");
                                    pw.println("Enter Id for delete:<input
type='text' name='id'/><br><br>");
                                    pw.println("<input type='submit' name='sub'
value='dsubmit'/><br><br>");
                                    }
                                    else if(a.equals("s"))
                                    {
                                        try
                                        {

Class.forName("com.mysql.jdbc.Driver");
                                Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/test","root
","");
                                Statement stat = con.createStatement();
                                ResultSet rs =
stat.executeQuery("Select * from test");
                                while(rs.next())
                                {
                                    pw.println("<table
border='2px'>");

                                    pw.println("<th>");
                                    pw.println("ID");
                                    pw.println("Name");
                                    pw.println("</th>");
                                    pw.println("<tbody>");
                                    pw.println("<tr>");
                                    pw.println("<td>");
                                    pw.println(rs.getString(1));
                                    pw.println("</td>");
                                    pw.println("<td>");
                                    pw.println(rs.getString(2));
                                    pw.println("</td>");
                                    pw.println("</tr>");
                                    pw.println("</tbody>");
                                    pw.println("</table>");

                                }

}

```

```

        catch(Exception ee)
        {
            pw.println("error is -->" + ee);
        }
    }
}
String ia=request.getParameter("sub");
if(ia.equals("submit"))
{
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/test","root", "");
        PreparedStatement
ps=con.prepareStatement("insert into test (id,name) values(?,?)");
        String aa=request.getParameter("id");
        String b=request.getParameter("name");
        ps.setString(1,aa);
        ps.setString(2,b);
        int upd=ps.executeUpdate();
        if(upd>0)
        {
            pw.println("Your data is inserted");
        }
        else
        {
            pw.println("Your data is not inserted
due to some issue");
        }
    }
    catch(Exception ee)
    {
        pw.println("Error is " + ee);
    }
}
else if(ia.equals("usubmit"))
{
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/test","root", "");
        PreparedStatement

```

```

ps=con.prepareStatement("UPDATE test set name=? where id=?");
    String aa=request.getParameter("id");
    String b=request.getParameter("name");
    ps.setString(1,b);
    ps.setString(2,aa);
    int upd=ps.executeUpdate();
    if(upd>0)
    {
        pw.println("Your data is updated");
    }
    else
    {
        pw.println("Your data is not in our
database");
    }
}
catch(Exception ee)
{
    pw.println("Error is "+ee);
}
}
else if(ia.equals("dsubmit"))
{
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/test","root
","");
        PreparedStatement
ps=con.prepareStatement("delete from test where id=?");
        String aa=request.getParameter("id");
        ps.setString(1,aa);
        int upd=ps.executeUpdate();
        if(upd>0)
        {
            pw.println("Your data is deleted");
        }
        else
        {
            pw.println("Id you enter is not in our
database");
        }
    }
}
catch(Exception ee)
{

```

	<pre>                pw.println("Error is "+ee);             }         }          protected void doPost(HttpServletRequest request,         HttpServletResponse response) throws ServletException, IOException {             // TODO Auto-generated method stub             doGet(request, response);         }     }</pre>				
<b>SnapShot</b>	<div>Insert <input type="radio"/> Update <input type="radio"/> Delete <input type="radio"/> Select <input type="radio"/></div> <div><input type="button" value="submit"/></div> <div><h2>Insert form</h2></div> <div><div>Id:</div><input type="text" value="1"/></div> <div><div>Name:</div><input type="text" value="VRUSHABH RAMANI"/></div> <div><input type="button" value="submit"/></div> <div>Your data is inserted</div> <div><table><thead><tr><th>id</th><th>name</th></tr></thead><tbody><tr><td>1</td><td>VRUSHABH RAMANI</td></tr></tbody></table></div>	id	name	1	VRUSHABH RAMANI
id	name				
1	VRUSHABH RAMANI				

---

## Update form

Id:

Name:

	<div><p>Your data is updated</p><table><thead><tr><th>id</th><th>name</th></tr></thead><tbody><tr><td>1</td><td>VRUSHABH RAMANI</td></tr><tr><td>2</td><td>magan</td></tr></tbody></table><h2>Delete form</h2><p>Enter Id for delete: <input type="text" value="1"/></p><p><input type="button" value="dsubmit"/></p><hr/><p>Your data is deleted</p><table><thead><tr><th>id</th><th>name</th></tr></thead><tbody><tr><td>2</td><td>magan</td></tr></tbody></table><hr/><p>Insert <input type="radio"/> Update <input type="radio"/> Delete <input type="radio"/> Select <input checked="" type="radio"/></p><p><input type="button" value="submit"/></p><table><thead><tr><th>ID</th><th>Name</th></tr></thead><tbody><tr><td>2</td><td>magan</td></tr></tbody></table></div>	id	name	1	VRUSHABH RAMANI	2	magan	id	name	2	magan	ID	Name	2	magan
id	name														
1	VRUSHABH RAMANI														
2	magan														
id	name														
2	magan														
ID	Name														
2	magan														
Q-18	insert														
Code	<pre>import java.sql.Connection; import java.sql.DriverManager; import java.sql.PreparedStatement;</pre>														



	<pre> import java.sql.SQLException;  public class JdbcInsertDemo {      public static void main(String[] args) {         String dbURL = "jdbc:mysql://localhost:3306/sampledbs";         String username = "root";         String password = "";          try (Connection conn = DriverManager.getConnection(dbURL, username, password)) {              String sql = "INSERT INTO Users (username, password, fullname, email) VALUES (?, ?, ?, ?)";              PreparedStatement statement = conn.prepareStatement(sql);             statement.setString(1, "AA");             statement.setString(2, "123");             statement.setString(3, "Homera Durani");             statement.setString(4, "homera.durani@rku.ac.in");              int rowsInserted = statement.executeUpdate();             if (rowsInserted &gt; 0) {                 System.out.println("A new user was inserted successfully!");             }          } catch (SQLException ex) {             ex.printStackTrace();         }     } } </pre>
<b>Q-19</b>	<b>Update</b>
<b>Code</b>	<pre> import java.sql.Connection; import java.sql.DriverManager; import java.sql.PreparedStatement; import java.sql.SQLException;  public class JdbcUpdateDemo {      public static void main(String[] args) {         String dbURL = "jdbc:mysql://localhost:3306/sampledbs";         String username = "root"; </pre>

	<pre> String password = "";  try (Connection conn = DriverManager.getConnection(dbURL, username, password)) {      String sql = "UPDATE Users SET password=?, fullname=?, email=? WHERE username=?";      PreparedStatement statement = conn.prepareStatement(sql);     statement.setString(1, "123456789");     statement.setString(2, "Durani Homera");     statement.setString(3, "homeradurani@rku.ac.in");     statement.setString(4, "XYZ");      int rowsUpdated = statement.executeUpdate();     if (rowsUpdated &gt; 0)     {         System.out.println("An existing user was updated successfully!");     }      } catch (SQLException ex) {         ex.printStackTrace();     } } </pre>
<b>Q-20</b>	<b>Select</b>
<b>Code</b>	<pre> import java.sql.Connection; import java.sql.DriverManager; import java.sql.ResultSet; import java.sql.SQLException; import java.sql.Statement;  public class JdbcSelectDemo {      public static void main(String[] args) {         String dbURL = "jdbc:mysql://localhost:3306/sampledbs";         String username = "root";         String password = "";          try (Connection conn = </pre>

	<pre> DriverManager.getConnection(dbURL, username, password)) {          String sql = "SELECT * FROM Users";          Statement statement = conn.createStatement();         ResultSet result = statement.executeQuery(sql);          int count = 0;          while (result.next()){             String name = result.getString(2);             String pass = result.getString(3);             String fullname = result.getString("fullname");             String email = result.getString("email");              String output = "User #%d: %s - %s - %s - %s";  System.out.println(String.format(output, ++count, name, pass, fullname, email));         }          } catch (SQLException ex) {             ex.printStackTrace();         }     } } </pre>
<b>Q-21</b>	<b>Delete</b>
<b>Code</b>	<pre> import java.sql.Connection; import java.sql.DriverManager; import java.sql.PreparedStatement; import java.sql.SQLException;  public class JdbcDeleteDemo {      public static void main(String[] args) {         String dbURL = "jdbc:mysql://localhost:3306/sampledbs";         String username = "root";         String password = "";          try (Connection conn = </pre>

	<pre> DriverManager.getConnection(dbURL, username, password)) {      String sql = "DELETE FROM Users WHERE username=?";      PreparedStatement statement = conn.prepareStatement(sql);     statement.setString(1, "AAA");      int rowsDeleted = statement.executeUpdate();     if (rowsDeleted &gt; 0)     {         System.out.println("A user was deleted successfully!");     }      } catch (SQLException ex) {         ex.printStackTrace();     } } </pre>
<b>Q-22</b>	<b>Insert</b>
<b>Code</b>	<p><b>Html File</b></p> <pre> &lt;!DOCTYPE html&gt; &lt;html&gt; &lt;head&gt; &lt;meta charset="ISO-8859-1"&gt; &lt;title&gt;Insert &lt;/title&gt; &lt;/head&gt; &lt;body&gt;     &lt;form action="insert"&gt;         Id:&lt;input type="text" name="n1" /&gt;&lt;br&gt;&lt;br&gt;         Name:&lt;input type="text" name="n2" /&gt;&lt;br&gt;&lt;br&gt;         &lt;input type="submit" name="Insert" /&gt;     &lt;/form&gt; &lt;/body&gt; &lt;/html&gt; </pre>

Code	Java File
	<pre> import java.io.IOException; import java.io.PrintWriter; import java.sql.*;  import javax.servlet.ServletException; import javax.servlet.annotation.WebServlet; import javax.servlet.http.HttpServlet; import javax.servlet.http.HttpServletRequest; import javax.servlet.http.HttpServletResponse;  /**  * Servlet implementation class insert  */ @WebServlet("/insert") public class insert extends HttpServlet {     private static final long serialVersionUID = 1L;      /**      * @see HttpServlet#HttpServlet()      */     public insert() {         super();         // TODO Auto-generated constructor stub     }      /**      * @see HttpServlet#doGet(HttpServletRequest request,     HttpServletResponse response)      */     protected void doGet(HttpServletRequest request,     HttpServletResponse response) throws ServletException, IOException {         // TODO Auto-generated method stub         //response.getWriter().append("Served at:     ").append(request.getContextPath());          response.setContentType("text/html");         PrintWriter pw = response.getWriter();          try {              Class.forName("com.mysql.jdbc.Driver"); </pre>

```

        Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/test","root","");

        PreparedStatement ps = con.prepareStatement("insert
into test (id,name) values(?,?)");

        String s1 = request.getParameter("n1");
        String s2 = request.getParameter("n2");

        ps.setString(1,s1);
        ps.setString(2,s2);

        int ins = ps.executeUpdate();

        if(ins>0) {

            pw.println("Data Inserted Successfully");
        }
        else {
            pw.println("kaik Vandho che..!!");
        }

    }
    catch(Exception e) {
        pw.println(e);
    }

}

/**
 * @see HttpServlet#doPost(HttpServletRequest request,
HttpServletResponse response)
 */
protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
    // TODO Auto-generated method stub
    doGet(request, response);
}

}

```

<b>SnapShot</b>	<div> Id: <input type="text" value="57"/> </div> <div> Name: <input type="text" value="pako"/> </div> <div> <input type="button" value="Submit Query"/> </div> <div> Data Inserted Successfully </div> <div> <table> <thead> <tr> <th>id</th><th>name</th></tr> </thead> <tbody> <tr> <td>57</td><td>pako</td></tr> </tbody> </table> </div>	id	name	57	pako
id	name				
57	pako				
<b>Q-23</b>	<b>Update</b>				
<b>Code</b>	<b>Html File</b> <pre> &lt;!DOCTYPE html&gt; &lt;html&gt; &lt;head&gt; &lt;meta charset="ISO-8859-1"&gt; &lt;title&gt;Insert title here&lt;/title&gt; &lt;/head&gt; &lt;body&gt;  &lt;form action="update"&gt;  Enter ID &lt;input type="text" name="n1"/&gt; &lt;br&gt;&lt;br&gt; Enter name&lt;input type="text" name="n2"/&gt;  &lt;br&gt;&lt;br&gt;  &lt;input type="submit" value = "Update" /&gt;  &lt;/form&gt; </pre>				

	<pre> &lt;/body&gt; &lt;/html&gt; </pre>
<b>Code</b>	<p><b>Java File</b></p> <pre> import java.io.IOException; import java.io.PrintWriter; import java.sql.*;  import javax.servlet.ServletException; import javax.servlet.annotation.WebServlet; import javax.servlet.http.HttpServlet; import javax.servlet.http.HttpServletRequest; import javax.servlet.http.HttpServletResponse;  /**  * Servlet implementation class update  */ @WebServlet("/update") public class update extends HttpServlet {     private static final long serialVersionUID = 1L;      /**      * @see HttpServlet#HttpServlet()      */     public update() {         super();         // TODO Auto-generated constructor stub     }      /**      * @see HttpServlet#doGet(HttpServletRequest request,     HttpServletResponse response)      */     protected void doGet(HttpServletRequest request,     HttpServletResponse response) throws ServletException, IOException {         // TODO Auto-generated method stub         //response.getWriter().append("Served at:     ").append(request.getContextPath());          response.setContentType("text/html");         PrintWriter pw = response.getWriter(); </pre>



```

try {

    Class.forName("com.mysql.jdbc.Driver");

    Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/test","root","");

    String s1 = request.getParameter("n1");
    String s2 = request.getParameter("n2");

    PreparedStatement st = con.prepareStatement("update
test set name = ? where id = "+s1);

    st.setString(1, s2);

    int ins = st.executeUpdate();
    if(ins>0) {
        pw.println("Data uPdated");
    }
    else {
        pw.println("kaik vandho che");
    }

}
catch(Exception e) {
    pw.println(e);
}

}

/**
 * @see HttpServlet#doPost(HttpServletRequest request,
HttpServletResponse response)
 */
protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
    // TODO Auto-generated method stub
    doGet(request, response);
}

```

	}				
<b>SnapShot</b>	<div>Enter ID <input type="text" value="57"/></div> <div>Enter name <input type="text" value="jigo"/></div> <div><input type="button" value="Update"/></div> <div>Data uPdated</div> <div><div>Options</div><table><thead><tr><th>id</th><th>name</th></tr></thead><tbody><tr><td>57</td><td>jigo</td></tr></tbody></table></div>	id	name	57	jigo
id	name				
57	jigo				
<b>Q-24</b>	<b>Delete</b>				
<b>Code</b>	<b>Html File</b> <pre>&lt;!DOCTYPE html&gt; &lt;html&gt; &lt;head&gt; &lt;meta charset="ISO-8859-1"&gt; &lt;title&gt;Insert title here&lt;/title&gt; &lt;/head&gt; &lt;body&gt; &lt;form action="delete"&gt;  Enter id &lt;input type="text" name="n1" /&gt; &lt;br&gt;&lt;br&gt; &lt;input type="submit" value = "DELETE"&gt;</pre>				

	<pre> &lt;/form&gt;  &lt;/body&gt; &lt;/html&gt; </pre>
<b>Code</b>	<p><b>Java File</b></p> <pre> import java.io.IOException; import java.io.PrintWriter; import java.sql.*; import javax.servlet.ServletException; import javax.servlet.annotation.WebServlet; import javax.servlet.http.HttpServlet; import javax.servlet.http.HttpServletRequest; import javax.servlet.http.HttpServletResponse;  /**  * Servlet implementation class delete  */ @WebServlet("/delete") public class delete extends HttpServlet {     private static final long serialVersionUID = 1L;      /**      * @see HttpServlet#HttpServlet()      */     public delete() {         super();         // TODO Auto-generated constructor stub     }      /**      * @see HttpServlet#doGet(HttpServletRequest request,     HttpServletResponse response)      */     protected void doGet(HttpServletRequest request,     HttpServletResponse response) throws ServletException, IOException {         // TODO Auto-generated method stub         //response.getWriter().append("Served at:     ").append(request.getContextPath());     } </pre>

```

        response.setContentType("text/html");
        PrintWriter pw = response.getWriter();

        try {

            Class.forName("com.mysql.jdbc.Driver");

            Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/test","root","");
            String s1 = request.getParameter("n1");

            PreparedStatement st = con.prepareStatement("delete from
test where id = "+s1);

            int ins = st.executeUpdate();

            if(ins>0) {

                pw.println("Data Deleted");

            }
            else {
                pw.println("kaik vandho che");
            }

        }
        catch(Exception e) {

            pw.println(e);

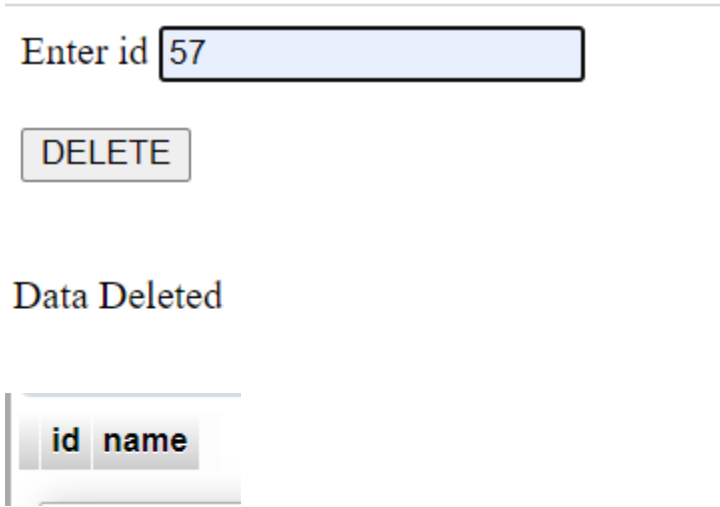
        }

    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request,
HttpServletResponse response)
     */
    protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
        // TODO Auto-generated method stub
        doGet(request, response);
    }

}

```

<b>Snapshot</b>	
<b>Q-25</b>	<b>Select</b>
<b>Code</b>	<b>Java File</b> <pre> import java.sql.*;  import java.io.IOException; import java.io.PrintWriter;  import javax.servlet.ServletException; import javax.servlet.annotation.WebServlet; import javax.servlet.http.HttpServlet; import javax.servlet.http.HttpServletRequest; import javax.servlet.http.HttpServletResponse;  /**  * Servlet implementation class select  */ @WebServlet("/select") public class select extends HttpServlet {     private static final long serialVersionUID = 1L;      /**      * @see HttpServlet#HttpServlet()      */ </pre>

```

public select() {
    super();
    // TODO Auto-generated constructor stub
}

/**
 * @see HttpServlet#doGet(HttpServletRequest request,
HttpServletResponse response)
 */
protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
    // TODO Auto-generated method stub
    //response.getWriter().append("Served at:
").append(request.getContextPath());

    response.setContentType("text/html");
    PrintWriter pw = response.getWriter();

    try {

        Class.forName("com.mysql.jdbc.Driver");

        Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/test","root","");

        Statement st = con.createStatement();

        ResultSet rs = st.executeQuery("select * from test");

        while(rs.next()) {
            pw.println("<table border = '2px'>");
            pw.println("<th>");
            pw.println("ID");
            pw.println("NAME");
            pw.println("</th>");
            pw.println("<tbody>");
            pw.println("<tr>");
            pw.println("<td>");
            pw.println(rs.getString(1));
            pw.println("</td>");

            pw.println("<td>");
            pw.println(rs.getString(2));
            pw.println("</td>");

```

	<pre>        pw.println("&lt;/tr&gt;");         pw.println("&lt;/tbody&gt;");         pw.println("&lt;/table&gt;");      }      }     catch(Exception e ) {          e.printStackTrace();     } }  /**  * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)  */ protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {     // TODO Auto-generated method stub     doGet(request, response); } }</pre>										
Snapshot	<div><table><tr><td>ID NAME</td><td></td></tr><tr><td>1</td><td>cfewfw</td></tr></table><p>ID NAME 2 vesrrfr</p></div> <div><table><tr><th>id</th><th>name</th></tr><tr><td>1</td><td>cfewfw</td></tr><tr><td>2</td><td>vesrrfr</td></tr></table></div>	ID NAME		1	cfewfw	id	name	1	cfewfw	2	vesrrfr
ID NAME											
1	cfewfw										
id	name										
1	cfewfw										
2	vesrrfr										

<b>Q-26</b>	<b>Even Series</b>
<b>Code</b>	<b>Html File</b> <pre> &lt;!DOCTYPE html&gt; &lt;html&gt; &lt;head&gt; &lt;meta charset="ISO-8859-1"&gt; &lt;title&gt;Insert title here&lt;/title&gt; &lt;/head&gt; &lt;body&gt;     &lt;form action="even"&gt;         Enter Number:&lt;input type="text" name="n1" /&gt;         &lt;input type="submit" value="OK" /&gt;     &lt;/form&gt; &lt;/body&gt; &lt;/html&gt; </pre>
<b>Code</b>	<b>Java File</b> <pre> import java.io.IOException; import java.io.PrintWriter;  import javax.servlet.ServletException; import javax.servlet.annotation.WebServlet; import javax.servlet.http.HttpServlet; import javax.servlet.http.HttpServletRequest; import javax.servlet.http.HttpServletResponse;  /**  * Servlet implementation class Second  */ @WebServlet("/even") public class even extends HttpServlet {     private static final long serialVersionUID = 1L;      /**      * @see HttpServlet#HttpServlet()      */     public even() {         super();         // TODO Auto-generated constructor stub     }      /** </pre>



	<pre>         * @see HttpServlet#doGet(HttpServletRequest request,         HttpServletResponse response)         */         protected void doGet(HttpServletRequest request,         HttpServletResponse response) throws ServletException, IOException {             response.setContentType("text/html");             PrintWriter pw=response.getWriter();             String b=request.getParameter("n1");             int c=Integer.parseInt(b);             pw.print("Even Series Is&lt;br&gt;");             for(int i=0;i&lt;=c;i++)             {                 if(i%2==0)                 {                     pw.println(i);                 }             }             //pw.print("&lt;br&gt;odd Series Is");              //        for(int j=0;j&lt;=c;)             //        {              /**             * @see HttpServlet#doPost(HttpServletRequest request,             HttpServletResponse response)             */             protected void doPost(HttpServletRequest request,             HttpServletResponse response) throws ServletException, IOException {                 // TODO Auto-generated method stub                 doGet(request, response);             }         }     }</pre>
<b>Snapshot</b>	<div><div></div><div>Enter Number: <input type="text" value="100"/> <input type="button" value="OK"/></div><div>Even Series Is 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100</div></div>

<b>Q-27</b>	<b>Odd Series</b>
<b>Code</b>	<b>Html File</b> <pre> &lt;!DOCTYPE html&gt; &lt;html&gt; &lt;head&gt; &lt;meta charset="ISO-8859-1"&gt; &lt;title&gt;Insert title here&lt;/title&gt; &lt;/head&gt; &lt;body&gt;     &lt;form action="odd"&gt;         Enter Number:&lt;input type="text" name="n1" /&gt;         &lt;input type="submit" value="OK" /&gt;     &lt;/form&gt; &lt;/body&gt; &lt;/html&gt; </pre>
<b>Code</b>	<b>Java File</b> <pre> import java.io.IOException; import java.io.PrintWriter;  import javax.servlet.ServletException; import javax.servlet.annotation.WebServlet; import javax.servlet.http.HttpServlet; import javax.servlet.http.HttpServletRequest; import javax.servlet.http.HttpServletResponse;  /**  * Servlet implementation class Second  */ @WebServlet("/odd") public class odd extends HttpServlet {     private static final long serialVersionUID = 1L;      /**      * @see HttpServlet#HttpServlet()      */     public odd() {         super();         // TODO Auto-generated constructor stub     }      /** </pre>

```

        * @see HttpServlet#doGet(HttpServletRequest request,
        HttpServletResponse response)
        */
        protected void doGet(HttpServletRequest request,
        HttpServletResponse response) throws ServletException, IOException {
            response.setContentType("text/html");
            PrintWriter pw=response.getWriter();
            String b=request.getParameter("n1");
            int c=Integer.parseInt(b);
            //
            pw.print("Even Series Is<br>");
            //
            for(int i=0;i<=c;i++)
            //
            {
            //
                if(i%2==0)
            //
                {
            //
                    pw.println(i);
            //
                }
            //
            }
            pw.print("<br>odd Series Is");

            for(int j=0;j<=c;j++)
            {
                if(j%2==1)
                {
                    pw.println(j);
                }
            }
        }


        /**
        * @see HttpServlet#doPost(HttpServletRequest request,
        HttpServletResponse response)
        */
        protected void doPost(HttpServletRequest request,
        HttpServletResponse response) throws ServletException, IOException {
            // TODO Auto-generated method stub
            doGet(request, response);
        }
    }

```

**SnapShot**

Enter Number:

odd Series Is1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83 85 87 89 91 93 95 97 99

<b>Q-28</b>	<b>Web.XML File</b>
<b>Code</b>	<pre> &lt;servlet&gt; &lt;servlet-name&gt;First&lt;/servlet-name&gt; &lt;servlet-class&gt;First&lt;/servlet-class&gt; &lt;/servlet&gt;  &lt;servlet-mapping&gt; &lt;servlet-name&gt;First&lt;/servlet-name&gt; &lt;url-pattern&gt;/First&lt;/url-pattern&gt; &lt;/servlet-mapping&gt; </pre>
<b>Q-29</b>	<b>Demonstrate step to install Tomcat server</b>
<b>Step-1</b>	 <p>The screenshot shows the Eclipse IDE's 'Servers' tab. At the top, there are tabs for 'Markers', 'Properties', 'Servers', 'Data Source Explorer', 'Snippets', and 'Console'. The 'Servers' tab is active and displays a message: 'No servers are available. Click this link to create a new server...'. The message is enclosed in a dashed border.</p>

## Step-2

The screenshot shows the 'New Server' wizard window. The title bar says 'New Server'. The main heading is 'Define a New Server' with a sub-instruction 'Choose the type of server to create'. Below this is a section 'Select the server type:' with a search filter 'type filter text'. A list of server types is shown, with 'Tomcat v8.5 Server' selected. Below the list is a description: 'Publishes and runs J2EE and Java EE Web projects and server configurations to a local Tomcat server.' Further down are three input fields: 'Server's host name:' with 'localhost', 'Server name:' with 'Tomcat v8.5 Server at localhost', and 'Server runtime environment:' with 'Apache Tomcat v8.5'. There are links for 'Add...' and 'Configure runtime environments...'. At the bottom are buttons for '< Back', 'Next >', 'Finish' (highlighted), and 'Cancel'.

New Server

**Define a New Server**

Choose the type of server to create

Select the server type:

type filter text

- Tomcat v6.0 Server
- Tomcat v7.0 Server
- Tomcat v8.0 Server
- Tomcat v8.5 Server**
- Tomcat v9.0 Server
- Tomcat v10.0 Server

> Basic

Publishes and runs J2EE and Java EE Web projects and server configurations to a local Tomcat server.

Server's host name: localhost

Server name: Tomcat v8.5 Server at localhost

Server runtime environment: Apache Tomcat v8.5 [Add...](#)

[Configure runtime environments...](#)

? < Back Next > **Finish** Cancel

## Step-3

The screenshot shows the 'New Server' wizard window, Step 3. The title bar is empty. The main heading is 'Server Properties'. Below this are four input fields: 'Name:' with 'Apache Tomcat v8.5', 'Tomcat installation directory:' with 'C:\Program Files\apache-tomcat-8.5.79', 'JRE:' with 'Workbench default JRE', and 'Server runtime environment:' with 'Apache Tomcat v8.5'. There are buttons for 'Browse...', 'Download and Install...', and 'Installed JREs...'. At the bottom are buttons for '< Back', 'Next >', 'Finish' (highlighted), and 'Cancel'.

Server Properties

Name: Apache Tomcat v8.5

Tomcat installation directory: C:\Program Files\apache-tomcat-8.5.79 [Browse...](#)

apache-tomcat-8.5.73 [Download and Install...](#)

JRE: Workbench default JRE [Installed JREs...](#)

Server runtime environment: Apache Tomcat v8.5

< Back Next > **Finish** Cancel

## Step-4

### Add and Remove

Modify the resources that are configured on the server



Move resources to the right to configure them on the server

Available:

emp  
servlet  
Test\_web

Configured:

Add >

< Remove

Add All >>

<< Remove All



< Back

Next >

Finish

Cancel

## Step-5

Markers Properties Servers × Data Source Explorer Snippets Console  
Tomcat v8.5 Server at localhost [Stopped, Republish]



