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| **Q-1** | **Factorial** |
| **Code** | **Html File**  <!DOCTYPE html>  <html>  <head>  <meta charset="ISO-8859-1">  <title>Insert title here</title>  </head>  <body>  <form action="factorial">  Enter a number<input type="text" name ="n1"/>  <br><br>  <input type="submit" value="Submit"/>  </form>  </body>  </html> |
| **Code** | **Java File**  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; |

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|  | /\*\*   * @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);  }  } |

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

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|  | 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); |

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|  | }  } |
| **SnapShot** |  |
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| **Q-3** | **Leap Year** |
| **Code** | **Html File**  <!DOCTYPE html>  <html>  <head>  <meta charset="ISO-8859-1">  <title>Insert title here</title>  </head>  <body>  <form action="ly">  Enter Number:<input type="text" name="n1" />  <input type="submit" value="OK" />  </form>  </body>  </html> |
| **Code** | **Java File**  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; |

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|  | /\*\*   * 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);  } |

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

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|  | 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; |

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|  | }  }  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);  }  } |
| **SnapShot** |  |
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| **Q-5** | **Prime or Not** |
| **Code** | **Html File**  <!DOCTYPE html>  <html> |

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|  | <head>  <meta charset="ISO-8859-1">  <title>Insert title here</title>  </head>  <form action="prime">  Enter any number:-<input type="text" name="n1"/>  <input type="submit" value="submit"/>  </form>  </html> |
| **Code** | **Java File**  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")); |

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|  | m=n/2; if(n==0||n==1){  pw.println(n+" is not prime number");  }else{ for(i=2;i<=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);  }  } |
| **SnapShot** |  |
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| **Q-6** | **Program to Create Servlet Without html File and Print Your Name** |
| **Code** | **Java File**  import java.io.IOException; import java.io.PrintWriter; |

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|  | 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); |

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|  | }  } |
| **SnapShot** |  |
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| **Q-7** | **Create a snipped where a one html file,label,textbox and submit button Fetch data from html** |
| **Code** | **Html File**  <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <title>Insert title here</title>  </head>  <body>  <form action="P2">  Enter Name <input type="text" name = "n1" />  <br><br>  <input type="submit" value="Submit">  </form>  </body>  </html> |
| **Code** | **Java File**  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; |

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|  | /\*\*   * 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);  }  } |

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| **Q-8** | **Write a program to servlet rollno,name and percentage** |
| **Code** | **Html File**  <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <title>Insert title here</title>  </head>  <body>  <form action="t3">  Enter Roll No :<input type="text" name = "n1"/>  <br><br>  Enter Name : <input type="text" name = "n2"/>  <br><br>  Enter Percentage :<input type="text" name = "n3"/>  <br><br>  <input type="submit" value="Submit">  </form>  </body>  </html> |
| **Code** | **Java File**  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 |

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|  | 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);  } |

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|  | } |
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| **Q-9** | **Take two textbox and perform addition operation use float or double** |
| **Code** | **Html File**  <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <title>Insert title here</title>  </head>  <body>  <form action="p4">  Value 1 :<input type = "text" name = "n1" />  <br><br>  Value 2 :<input type = "text" name = "n2" />  <br><br>  <input type="submit" value ="Submit" > |

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|  | </form>  </body>  </html> |
| **Code** | **Java File**  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); |

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|  | }  /\*\*  \* @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);  }  } |
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| **Q-10** | **Prepare mini calculator** |
| **Code** | **Html File**  <!DOCTYPE html>  <html>  <head>  <meta charset="ISO-8859-1">  <title>Insert title here</title>  </head>  <body>  <form action="P5">  Number 1 - &nbsp;<input type="text" name="n1"/><br><br> Number 2 - &nbsp;<input type="text" name="n2"/><br><br><br> |

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|  | Operator  <select name="op">  <option value="Addition">Addition</option>  <option value="Subtraction">Subtraction</option>  <option value="multiplication">multiplication</option>  <option value="division">division</option>  </select>  <input type="submit" value="Calculate"/>  </form>  </body>  </html> |
| **Code** | **Java File**  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 |

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|  | //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);  }  } |

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| **Q-11** | **Create a Database with emp and fields are empid, empname, leave,salary.**  **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.** |
| **Code** | **Java File**  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"); |

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|  | }  }  catch(Exception e)  {  System.out.println(e);  }  }  } |
| **SnapShot** |  |
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| **Q-12** | **Perform JDBC operation using prepared statement and perform different cases like** |
| **Code** | **Java File [Insert]**  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;  } |

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|  | 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 invallid ");  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); |

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|  | int rowsInserted = ps.executeUpdate(); if(rowsInserted == 1)  {  System.out.println("\nRecord Inserted");  }  }  catch(Exception e)  {  e.printStackTrace();  }  }  } |
| **Snapshot** |  |

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| **Code** | **Java File [Delete]**  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(); |

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|  | 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);  }  }  } |
| **SnapShot** |  |

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| **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) |
|  | { |

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

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

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|  | d")  public class background extends HttpServlet { private static final long serialVersionUID = 1L;  /\*\*  \* @see HttpServlet#HttpServlet()  \*/  p  u b l i c b a c k g r o u n d (  )  {  s u p e r (  )  ;  // TODO Auto-generated constructor stub |

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|  | }  /\*\*  \* @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.setContentT ype("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)  {  } |

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|  | 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);  } |

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|  | } |
| **SnapShot** |  |

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

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|  | ion; import javax.servlet.annotation.W ebServlet; import javax.servlet.http.HttpServl et;  import javax.servlet.http.HttpServlet Request; import javax.servlet.http.HttpServlet Response;  /\*\*  \* Servlet implementation class C1  \*  / @ W  e b S  er vl et ("  / C 1 ")  public class C1 extends HttpServlet {  private static final long serialVersionUID = 1L;  /\*\*  \* @see HttpServlet#HttpServlet()  \*/  p |

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|  | u b l i c C 1 (  )  {  s u p e r (  )  ;  // 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 |

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|  | 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 |

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

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|  | // TODO  Auto-generated method stub doGet(request, response);  }  } |
| **SnapShot** |  |
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| **Q-15** | **write a program to display image on browser** |
| **Code** | **Java File**  import java.io.BufferedInpu tStream; import java.io.BufferedOut putStream; import java.io.FileInputStre am; import java.io.IOException  ; |

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|  | import javax.servlet.ServletExcept ion; import javax.servlet.ServletOutput Stream; import javax.servlet.annotation.W ebServlet; import javax.servlet.http.HttpServl et;  import javax.servlet.http.HttpServlet Request; import javax.servlet.http.HttpServlet Response;  /\*\*  \* Servlet implementation class image  \*/ @Web Servlet ("/imag e")  public class image extends HttpServlet {  private static final long serialVersionUID = 1L;  /\*\*  \* @see HttpServlet#HttpServlet()  \*/  p  u b l i c i |

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|  | m a g e (  )  {  s u p e r (  )  ;  // 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 f1 = new FileInputStream("E:\\logo.png"); |

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|  | BufferedInputStream bf1 = new BufferedInputStream(f1); BufferedOutputStream bo = new BufferedOutputStream(os);  int c = 0 ;  w hil e(  (c  =  bf 1.  re ad ())  !=  -1  )  {  bo  .w rit e( c);  }  bf1.close();  f1.close();  bo.close();  os.close();  //response.getWriter().ap |

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|  | 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);  }  } |
| **SnapShot** |  |
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| **Q-15** | **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** |
| **Code** | **Html File**  <!DOCTYPE html>  <html>  <head>  <meta charset="ISO-8859-1">  <title>Insert title here</title>  </head>  <body>  <form action="First">  Roll No:<input name="roll" type="number"/><br><br> Name:<input name="name" type="text" /><br><br> Mobile No:<input name="mno" type="text"/><br><br>  Email-Id:<input name="email" type="email" /><br><br>  Gender: Male<input name="ge" type="radio" value="male" /> Female<input name="ge" type="radio" value="female" /><br><br> City:<input name="city" type="text"/><br><br>  <input type="submit" value="Submit" />  </form>  </body>  </html> |
| **Code** | **Java File**  import java.io.I OExcept ion; |

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|  | import java.sql.  \*; import  javax.servlet.ServletExcept ion; import javax.servlet.annotation.W ebServlet; import javax.servlet.http.HttpServl 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;  p  u b l i c F  i r s t (  )  {  s |

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|  | u p e r (  )  ;  }  protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  response.setContentT ype("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 |

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|  | con=DriverManager.getConnection("jdbc:mysql://localhost:3306/test","roo t","");  PreparedStatement ps=con.prepareStatement("insert into emp(rollno,name,mobileno,email,gender,city) values (?,?,?,?,?,?)");  p s  .  s e t I  n t ( 1  ,  i  )  ;  p s  .  s e t S  t r i n g ( 2  ,  n  )  ;  p |

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|  | 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 |

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|  | 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.ex ecuteUp date(); if(aa>0)  {  pw.println("Your data is inserted |

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|  | successfully");  }  }  catch(Exception ee)  {  pw.println("Error is "+ee);  }  }  protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  doGet(request, response);  }  } |
| **SnapShot** |  |

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| **Q-16** | **Life Cycle** |
| **Code** | **Java File**  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 |

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|  | javax.servlet.http.HttpServlet Response;  /\*\*  \* Servlet implementation class Life\_cycle  \*/ @WebServ let("/Life\_ cycle")  public class Life\_cycle extends HttpServlet {  private static final long serialVersionUID = 1L;  /\*\*  \* @see HttpServlet#HttpServlet()  \*/  p  u b l i c L  i f e  \_ c y c l e (  )  {  s |

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|  | u p e r (  )  ;  // 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, |

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|  | 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.setContentT ype("text/html"); PrintWriter pw=response.getWrite r();  pw.println("service");  }  } |

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| **Q-17** | **Connectivity** |
| **Code** | **Html File**  <!DOCTYPE html>  <html>  <head>  <meta charset="ISO-8859-1"> |

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|  | <title>First using the Radio button</title>  </head>  <body>  <form action="First">  Insert<input type="radio" name="q" value="i"/> Update<input type="radio" name="q" value="u"/> Delete<input type="radio" name="q" value="d"/> Select<input type="radio" name="q" value="s"/><br><br>  <input type="submit" value="submit" />  </form>  </body>  </html> |
| **Code** | **Web.XML File**  <?xml version="1.0" encoding="UTF-8"?>  <web-app [xmlns:xsi="http://www](http://www.w3.org/2001/XMLSchema-instance).w3.or[g/2001/XMLSchema-instance"](http://www.w3.org/2001/XMLSchema-instance) [xmlns="http://xmlns.jcp.org/xml/ns/javaee"](http://xmlns.jcp.org/xml/ns/javaee) [xsi:schemaLocation="http://xmlns.jcp.or](http://xmlns.jcp.org/xml/ns/javaee)g/xml/ns/javaee [http://xmlns.jcp.org/xml/ns/javaee/web-app\_3\_1.xsd"](http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd) id="WebApp\_ID" version="3.1">  <display-name>servlet</display-name>  <welcome-file-list>  <welcome-file>index.html</welcome-file>  <welcome-file>index.jsp</welcome-file>  <welcome-file>index.htm</welcome-file>  <welcome-file>default.html</welcome-file>  <welcome-file>default.jsp</welcome-file>  <welcome-file>default.htm</welcome-file>  </welcome-file-list>  <servlet>  <servlet-name>First</servlet-name>  <servlet-class>First</servlet-class>  </servlet>  <servlet-mapping>  <servlet-name>First</servlet-name>  <url-pattern>/First</url-pattern>  </servlet-mapping>  </web-app> |
| **Code** | **Java File**  import java.io.IOException; import java.io.PrintWriter; |

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| --- | --- |
|  | 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' |

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|  | 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>");  }  } |

|  |  |
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|  | 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 |

|  |  |
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|  | 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)  { |

|  |  |
| --- | --- |
|  | pw.println("Error is "+ee);  }  }  }  protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  // TODO Auto-generated method stub doGet(request, response);  }  } |
| **SnapShot** |  |

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| **Q-18** | **insert** |
| **Code** | **import java.sql.Connection; import java.sql.DriverManager;**  **import java.sql.PreparedStatement;** |

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|  | **import java.sql.SQLException;**  **public class JdbcInsertDemo {**  **public static void main(String[] args) {**  **String dbURL = "jdbc:mysql://localhost:3306/sampledb"; 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");**](mailto:homera.durani@rku.ac.in)  **int rowsInserted = statement.executeUpdate(); if (rowsInserted > 0) {**  **System.out.println("A new user was inserted**  **successfully!");**  **}**  **} catch (SQLException ex) { ex.printStackTrace();**  **}**  **}**  **}** |
|  |  |
| **Q-19** | **Update** |
| **Code** | **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/sampledb"; String username = "root";** |

|  |  |
| --- | --- |
|  | **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");**](mailto:homeradurani@rku.ac.in)  **statement.setString(4, "XYZ");**  **int rowsUpdated = statement.executeUpdate();**  **if (rowsUpdated > 0)**  **{**  **System.out.println("An existing user was updated successfully!");**  **}**  **} catch (SQLException ex) { ex.printStackTrace();**  **}**  **}**  **}** |
|  |  |
| **Q-20** | **Select** |
| **Code** | **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/sampledb"; String username = "root"; String password = "";**  **try (Connection conn =** |

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|  | **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();**  **}**  **}**  **}** |
|  |  |
| **Q-21** | **Delete** |
| **Code** | **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/sampledb"; String username = "root"; String password = "";**  **try (Connection conn =** |

|  |  |
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|  | **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 > 0)**  **{**  **System.out.println("A user was deleted successfully!");**  **}**  **} catch (SQLException ex) { ex.printStackTrace();**  **}**  **}**  **}** |
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| **Q-22** | **Insert** |
| **Code** | **Html File**  <!DOCTYPE html>  <html>  <head>  <meta charset="ISO-8859-1">  <title>Insert </title>  </head>  <body>  <form action="insert">  Id:<input type="text" name="n1" /><br><br> Name:<input type="text" name="n2" /><br><br>  <input type="submit" name="Insert" />  </form>  </body>  </html> |

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| **Code** | **Java File**  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"); |

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|  | 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);  }  } |

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| **Q-23** | **Update** |
| **Code** | **Html File**  <!DOCTYPE html>  <html>  <head>  <meta charset="ISO-8859-1">  <title>Insert title here</title>  </head>  <body>  <form action="update">  Enter ID <input type="text" name="n1"/>  <br><br>  Enter name<input type="text" name="n2"/>  <br><br>  <input type="submit" value = "Update" />  </form> |

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|  | </body>  </html> |
| **Code** | **Java File**  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(); |

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|  | 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);  } |

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|  | } |
| **SnapShot** |  |
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| **Q-24** | **Delete** |
| **Code** | **Html File**  <!DOCTYPE html>  <html>  <head>  <meta charset="ISO-8859-1">  <title>Insert title here</title>  </head>  <body>  <form action="delete">  Enter id <input type="text" name="n1" />  <br><br>  <input type="submit" value = "DELETE"> |

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|  | </form>  </body>  </html> |
| **Code** | **Java File**  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()); |

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|  | 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);  }  } |

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| **Snapshot** |  |
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| **Q-25** | **Select** |
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| **Code** | **Java File**  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()  \*/ |

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|  | 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>"); |

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|  | pw.println("</tr>"); pw.println("</tbody>"); pw.println("</table");  }  }  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);  }  } |
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| **Q-26** | **Even Series** |
| **Code** | **Html File**  <!DOCTYPE html>  <html>  <head>  <meta charset="ISO-8859-1">  <title>Insert title here</title>  </head>  <body>  <form action="even">  Enter Number:<input type="text" name="n1" />  <input type="submit" value="OK" />  </form>  </body>  </html> |
| **Code** | **Java File**  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  }  /\*\* |

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|  | * @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;)  }  /\*\*   * @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** |  |
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| **Q-27** | **Odd Series** |
| **Code** | **Html File**  <!DOCTYPE html>  <html>  <head>  <meta charset="ISO-8859-1">  <title>Insert title here</title>  </head>  <body>  <form action="odd">  Enter Number:<input type="text" name="n1" />  <input type="submit" value="OK" />  </form>  </body>  </html> |
| **Code** | **Java File**  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  }  /\*\* |

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|  | * @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** |  |

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| **Q-28** | **Web.XML File** |
| **Code** | <servlet>  <servlet-name>First</servlet-name>  <servlet-class>First</servlet-class>  </servlet>  <servlet-mapping>  <servlet-name>First</servlet-name>  <url-pattern>/First</url-pattern>  </servlet-mapping> |
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| **Q-29** | **Demonstrate step to install Tomcat server** |
| **Step-1** |  |

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| **Step-2** |  |
| **Step-3** |  |

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| **Step-4** |  |
| **Step-5** |  |