```
import java.util.Scanner;

public class Demo {
   public static void main(String args[]){
     Scanner reader = new Scanner (System.in);
     String name;

     System.out.println("Enter your name:");
     name=reader.next();
     System.out.println("Your name is:"+name);
   }
}
```

```
Output-1D523IS004 (run) x

Tun:
Enter your name:
Aastha
Your name is:Aastha
BUILD SUCCISSFUL (total time: 5 seconds)
```

# **Program-2:**

```
abstract class Vehicle{
  public abstract void wheels();
  public abstract void brakes();
  public abstract void seating();
class Car extends Vehicle{
  public void wheels(){
    System.out.println("Car has four wheels");
  }
  public void brakes(){
    System.out.println("Car has power brakes");
  }
  public void seating(){
    System.out.println("Car has 4 seatings");
  }
}
class Bike extends Vehicle{
  public void wheels(){
    System.out.println("Bike has 2 wheels");
  }
  public void brakes(){
    System.out.println("Bike has Disc brakes");
  }
  public void seating(){
    System.out.println("Bike has 2 seatings");
```

```
}
}
class Demo{
  public static void main(String args[]){
  Vehicle v=new Car();
  Vehicle v1=new Bike();
  v.wheels();
  v.brakes();
  v.seating();
  v1.wheels();
  v1.brakes();
  v1.seating();
}
```

```
Output - 1D52315004 (run) x

| vun:
| Car has four wheels
| Car has power brakes
| Car has 4 seatings
| Bike has 2 wheels
| Bike has 2 wheels
| Bike has 2 seatings
| BUILD SUCCESSFUL (total time: 0 seconds)
```

```
package balance;
import java.io.*;
public class Account
long acc,bal;
String name;
public void read()throws Exception
DataInputStream in=new DataInputStream(System.in);
System.out.println("Enter the name:");
name=in.readLine();
System.out.println("Enter the account number:");
acc=Long.parseLong(in.readLine());
System.out.println("Enter the account balance:");
bal=Long.parseLong(in.readLine());
public void disp()
System.out.println("~~~~~~~~~~~");
System.out.println("--- Account Details ---");
System.out.println("~~~~~~~~~~");
System.out.println("Name:"+name);
System.out.println("Account number :"+acc);
System.out.println("Balance :"+bal);
}
```

```
import balance.*

public class Bankbal {
 public static void main(String arg[]){
    try{
      balance.Account a=new balance.Account();
      a.read();
      a.disp();
    }
    catch (Exception e){
      System.out.println(e);
    }
}
```

# Program-3:

```
import java.util.Scanner;
class Employee
  String empld;
  String empName;
  long empPhone;
  float empSalary;
  public void accept()
{
    Scanner scanner = new Scanner(System.in);
    System.out.print("Enter Staff Id: ");
    empId = scanner.next();
    System.out.print("Enter Name: ");
    empName = scanner.next();
    System.out.print("Enter Phone: ");
    empPhone = scanner.nextLong();
    System.out.print("Enter Salary: ");
    empSalary = scanner.nextFloat();
         }
  public void display()
{
        System.out.println("Staff Id: " + empId);
        System.out.println("Name: " + empName);
        System.out.println("Phone: " + empPhone);
        System.out.println("Salary: " + empSalary);
        }
}
```

```
class Teaching extends Employee
{
  String domain;
  int n;
  public void accept()
{
         super.accept();
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter Domain: ");
        domain = scanner.next();
        System.out.print("Enter Number of Publications: ");
        n = scanner.nextInt();
        System.out.println("\n");
        }
  public void display()
{
         super.display();
        System.out.println("Domain: " + domain);
        System.out.println("Publications:" + n);
        System.out.println("\n");
        }
}
class Technical extends Employee
{
  String skill;
  public void accept()
        super.accept();
        Scanner scanner = new Scanner(System.in);
```

```
System.out.print("Enter technical Skills: ");
         skill = scanner.nextLine();
         System.out.println("\n");
  public void display()
        super.display();
        System.out.println("Technical Skills: " + skill);
        System.out.println("\n");
         }
}
class Contract extends Employee {
  int period;
  public void accept()
{
        super.accept();
         Scanner scanner = new Scanner(System.in);
        System.out.print("Enter Period: ");
        period = scanner.nextInt();
        System.out.println("\n");
        }
  public void display()
        super.display();
        System.out.println("Contract Period: " + period);
        }
}
```

```
{
        public static void main(String[] args) {
        Teaching teaching = new Teaching();
        System.out.println("Enter the details of Teaching Staff");
        teaching.accept();
        Technical technical = new Technical();
        System.out.println("Enter the details of Technical Staff");
        technical.accept();
         Contract contract = new Contract();
         System.out.println("Enter the details of Contract Staff");
         contract.accept();
        System.out.println("The details of Teaching Staff");
        teaching.display();
        System.out.println("The details of Technical Staff");
        technical.display();
         System.out.println("The details of Contract Staff");
        contract.display();
        }
}
```

#### Output - 1DS23IS004 (run) × X Enter the details of Teaching Staff X Enter the details of Teaching St Enter Staff Id: 1 Enter Name: Aneesha Enter Phone: 12345 Enter Salary: 22222 Enter Domain: ISE Enter Number of Publications: 2 = 20g Enter the details of Technical Staff Enter Staff Id: 2 Enter Name: Ambika Enter Phone: 345 Enter Salary: 123454 Enter technical Skills: Web Enter the details of Contract Staff Enter Staff Id: 3 Enter Name: Anand Enter Phone: 34567 Enter Salary: 34567 Enter Period: 2 The details of Teaching Staff Staff Id: 1 Name: Aneesha Phone: 12345 Salary: 22222.0 Domain: ISE Publications:2 The details of Technical Staff Staff Id: 2 Name: Ambika Phone: 345 Salary: 123454.0 Technical Skills: Web The details of Contract Staff Staff Id: 3 Name: Anand Phone: 34567 Salary: 34567.0 Contract Period: 2 BUILD SUCCESSFUL (total time: 1 minute 15 seconds)

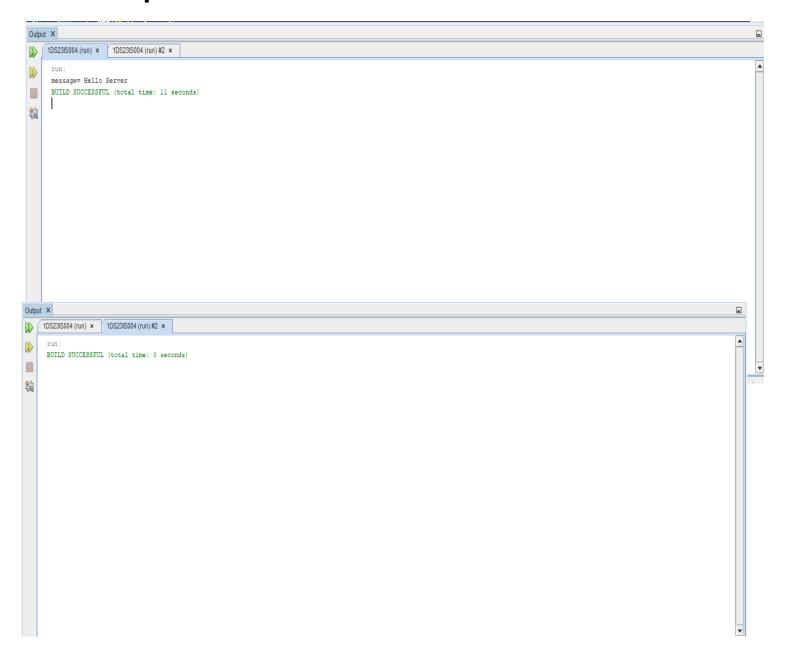
```
import java.util.Scanner;
class ExceptionDivision
public static void main(String[] args)
int a,b,result;
Scanner input =new Scanner(System.in);
System.out.println("Input two integers");
a=input.nextInt();
b=input.nextInt();
try
result=a/b;
System.out.println("Result="+result);
}
catch(ArithmeticException e)
System.out.println("exception caught: Divide by zero error"+e);
}
}}
Output:
   run:
   Input two integers
   exception caught: Divide by zero errorjava.lang.ArithmeticException: / by zero
   BUILD SUCCESSFUL (total time: 4 seconds)
```

```
import java.net.URL;
public class URLMain {
  public static void main(String[] args)
{
   try
{
URL url = new
URL("https://www.example.com/path/to/file.html?key=value#fragment");
     System.out.println("Protocol: " + url.getProtocol());
     System.out.println("Host: " + url.getHost());
     System.out.println("Port: " + url.getPort());
     System.out.println("Path: " + url.getPath());
     System.out.println("Query: " + url.getQuery());
     System.out.println("Fragment: " + url.getRef());
   }
catch (Exception e)
{
     System.out.println("Error: " + e.getMessage());
   }
  }
}
```

```
run:
Protocol: https
Host: www.example.com
Port: -1
Path: /path/to/file.html
Query: key=value
Fragment: fragment
BUILD SUCCESSFUL (total time: 0 seconds)
```

```
ServerSide.java
       import java.io.*;
        import java.net.*;
       public class ServerSide
              public static void main(String[]args)
               try
              ServerSocket ss=new ServerSocket(3306);
              Socket s=ss.accept();//establishes connection
              DataInputStream dis=new DataInputStream(s.getInputStream());
              String str=(String)dis.readUTF();
              System.out.println("message= "+str);
              ss.close();
              catch(Exception e)
              System.out.println(e);}
       }
ClientSide.java
       import java.io.*;
       import java.net.*;
       public class ClientSide
              public static void main(String[] args)
              try
```

```
Socket s=new Socket("localhost",3306);
DataOutputStreamdout=new DataOutputStream(s.getOutputStream());
dout.writeUTF("Hello Server");
dout.flush()
dout.close();
s.close();
}
catch(Exception e)
{
System.out.println(e);}
}
```



## Program-7:

```
import java.sql.*;
public class InsertDemo {
// JDBC driver name and database URL
static final String JDBC_DRIVER = "com.mysql.cj.jdbc.Driver";
static final String DB_URL = "jdbc:mysql://localhost:3306/";
// Database credentials
static final String USER = "root";
static final String PASS = "root";
static final String db_Name = "jdbctest";
public static void main(String[] args) { Connection conn = null;
Statement stmt = null;
try{
//STEP 2: Register JDBC driver
Class.forName("com.mysql.cj.jdbc.Driver");
//STEP 3: Open a connection
System.out.println("Connecting to a selected database...");
conn = DriverManager.getConnection(DB_URL+db_Name,USER,PASS);
System.out.println("Connected database successfully...");
//STEP 4: Execute a query
System.out.println("Inserting records into the table...");
stmt = conn.createStatement();
String sql = "INSERT INTO employees" + "VALUES ('5001', '30', 'Surendra', 'K', 'Coimbatore')";
stmt.executeUpdate(sql);
sql = "INSERT INTO employees " + "VALUES ('5002', '21', 'Athul', 'K', 'Wayanad')";
```

```
stmt.executeUpdate(sql);
sql = "INSERT INTO employees " + "VALUES ('5003', '20', 'Yadhu', 'K T', 'Palakkad')";
stmt.executeUpdate(sql);
sql = "INSERT INTO employees " + "VALUES ('5004', '23', 'Pravin', 'K P', 'Thrissur')";
stmt.executeUpdate(sql);
sql = "UPDATE employees " + "SET age = 21 WHERE EMP_ID in (5003, 5004)";
stmt.executeUpdate(sql);
System.out.println("Inserted records into the table...");
String sql2="DELETE FROM employees where EMP_ID=5004";
stmt.executeUpdate(sql2);
System.out.println("deleted records in the table where id is 5004...");
ResultSet rs= stmt.executeQuery("select * from employees");
while(rs.next()){
  System.out.println(rs.getString(1)+ " "+rs.getString(2)+ " "+rs.getString(3)+ " "+rs.getString(4)+ "
"+rs.getString(5)+" ");
}
}catch(SQLException se){
//Handle errors for JDBC
se.printStackTrace();
}
catch(Exception e){
//Handle errors for Class.forName
e.printStackTrace();
}
finally{
//finally block used to close resources
try{
  if(stmt!=null) conn.close();
}
catch(SQLException se){
```

```
}// do nothing
try{
if(conn!=null) conn.close();
}
catch(SQLException se){
    se.printStackTrace();
}//end finally try
}//end try System.out.println("Goodbye!");
}//end main
}
```

```
mysql> CREATE TABLE employees ( EMP_ID INT, AGE INT, FIRST_NAME VARCHAR(30),LAST_NAME VARCHAR(30),ADDRESS VARCHAR(30));
Query OK, 0 rows affected (0.02 sec)

mysql> SELECT * FROM employees;

| EMP_ID | AGE | FIRST_NAME | LAST_NAME | ADDRESS |
| 5001 | 30 | Surendra | K | Coimbatore |
| 5002 | 21 | Athul | K | Wayanad |
| 5003 | 21 | Yadhu | K T | Palakkad |
| 5003 | 21 | Yadhu | K T | Palakkad |
| 5005 | Sec)
```

```
Output-1DS23S004 (run) X

Tun:
Connecting to a selected database...
Connected database successfully...
Inserting records into the table...
Inserted records into the table where id is 5004...
5001 30 Surendra K Coimbatore
5002 21 Athul K Mayamad
5003 21 Yadhu K T Palakkad
BUILD SUCCESSFUL (total time: 0 seconds)
```

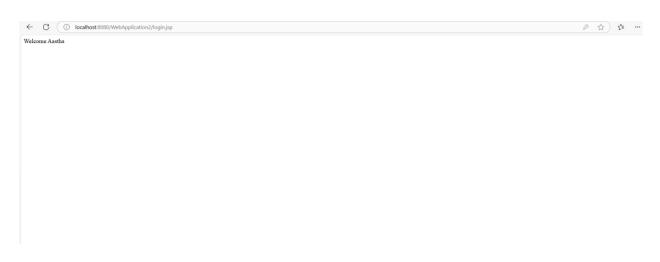
### **Program-8:**

#### Login.html

```
<html>
   <head>
   <title>Login</title>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   </head>
   <body>
   <form action="login.jsp" method="post" id="styleform">
   <h2>Login Authentication</h2><hr color="black"><br>
   Username: <input type="text" name="user"/><br><br>
   <input type="submit" value="Submit" id="stylesub"/>
   </form>
   </body>
   </html>
Login.jsp
   <!DOCTYPE html>
   <html>
   <head>
   <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
   <title>Login</title>
   </head>
   <body>
   <%@ page import ="java.sql.*" %>
   <%@ page import ="javax.sql.*" %>
```

<%String userid = request.getParameter("user");</pre>

```
String pwd = request.getParameter("pwd");
Class.forName("com.mysql.jdbc.Driver");
java.sql.Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/emp","users","");
Statement st= con.createStatement();
ResultSet rs= st.executeQuery("select * from users where user_id=""+userid+""");
if(rs.next())
{if(rs.getString(2).equals(pwd)) {
    session.setAttribute("user",rs.getString(3));
    String name=(String)session.getAttribute("user");
    out.println("Welcome "+ name);
}else
System.out.println("Invalid password try again");
} %></body>
</html>
```





### Program-9:

/\*

- \* To change this license header, choose License Headers in Project Properties.
- \* To change this template file, choose Tools | Templates
- \* and open the template in the editor.

\*/

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

/\*\*

\*

```
* @author iselab5
*/
public class PageHitCounter extends HttpServlet {
  /**
  * Processes requests for both HTTP <code>GET</code> and <code>POST</code>
  * methods.
  * @param request servlet request
  * @param response servlet response
  * @throws ServletException if a servlet-specific error occurs
  * @throws IOException if an I/O error occurs
  */
  private int hitCount;
public void init() { hitCount = 0; }
  protected void processRequest(HttpServletRequest request, HttpServletResponse response)
      throws ServletException, IOException {
    response.setContentType("text/html;charset=UTF-8");
    hitCount++;
    try (PrintWriter out = response.getWriter()) {
      /* TODO output your page here. You may use following sample code. */
      out.println("<!DOCTYPE html>");
      out.println("<html>");
```

```
out.println("<head>");
      out.println("<title>Servlet PageHitCounter</title>");
      out.println("</head>");
      out.println("<body>");
      out.println("<h1>hitCount shows number of click on website</h1>");
     out.println("<h2 align = \"center\">" + hitCount + "</h2>\n" );
      out.println("</body>");
      out.println("</html>");
    }
  }
  // <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on
the left to edit the code.">
  /**
  * Handles the HTTP <code>GET</code> method.
  * @param request servlet request
  * @param response servlet response
  * @throws ServletException if a servlet-specific error occurs
  * @throws IOException if an I/O error occurs
  */
  @Override
  protected void doGet(HttpServletRequest request, HttpServletResponse response)
      throws ServletException, IOException {
    processRequest(request, response);
```

```
}
/**
* Handles the HTTP <code>POST</code> method.
* @param request servlet request
* @param response servlet response
* @throws ServletException if a servlet-specific error occurs
* @throws IOException if an I/O error occurs
*/
@Override
protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
  processRequest(request, response);
}
/**
* Returns a short description of the servlet.
* @return a String containing servlet description
*/
@Override
public String getServletInfo() {
  return "Short description";
}// </editor-fold>
```

}



hitCount shows number of click on website

5

## Program-10

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpServletResponse;
import java.sql.*;
public class P9_DatabaseAccess extends HttpServlet
{
    public void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException
    {
        String JDBC_DRIVER = "com.mysql.jdbc.Driver";
    }
}
```

```
String DB_URL="jdbc:mysql://localhost/STUDENT";
String USER = "root";
String PASS = "root";
response.setContentType("text/html");
PrintWriter out = response.getWriter();
String title = "Database Result";
String docType =
"<!doctype html public \"-//w3c//dtd html 4.0 " + "transitional//en\">\n";
out.println(docType +
"<html>\n" +
"<head><title>" + title + "</title></head>\n" +
"<body bgcolor = \"#f0f0f0\">\n" +
"<h1 align = \"center\">" + title + "</h1>\n");
try
{
 Class.forName("com.mysql.jdbc.Driver");
  Connection conn = DriverManager.getConnection(DB_URL, USER, PASS);
 Statement stmt = conn.createStatement();
 String sql;
  sql = "SELECT * from stu";
  ResultSet rs = stmt.executeQuery(sql);
  out.println("");
  out.println("IDNameAge");
 while(rs.next())
 {
    int id = rs.getInt(1);
    String name = rs.getString(2);
```

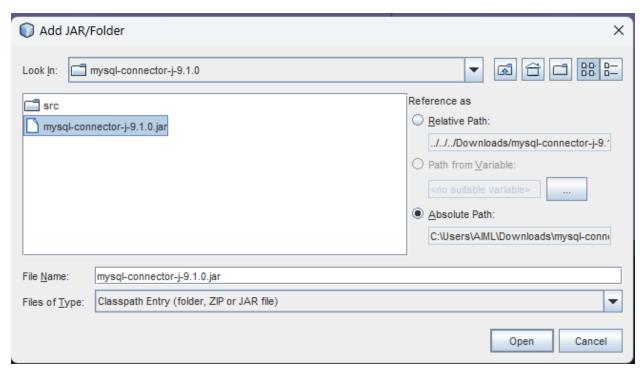
```
int age = rs.getInt(3);
        out.println(
        ""+id+""+name+""+age+
"");
        out.println("<br>");
      }
      out.println("</body></html>");
      rs.close();
      stmt.close();
      conn.close();
    }
    catch(SQLException se)
    {
     out.println(se);
     se.printStackTrace();
    catch(Exception e)
    {
      e.printStackTrace();
      out.println(e);
    }
  }
}
Note:
Steps to create:
```

STEP 1: File->New Project->Java Web->next->next->Finish

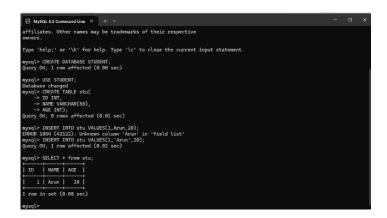
# STEP 2: right click on Webapplication(whatever name given)->New->Servlet->tick the Add info ->Finish

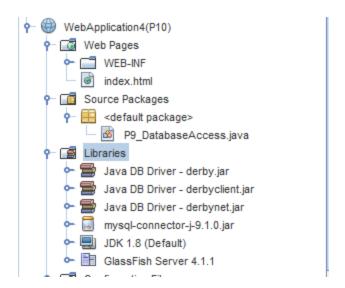
#### STEP 3:Right click Libraries->Add Library->Java DB Driver

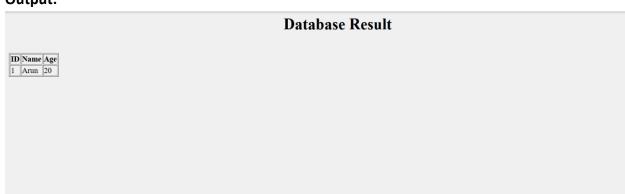
#### STEP 4:Right click Libraries->Add JAR ->



#### STEP 5:In mysql







## **Modifications**

## Program-8: Add register page

### login.html

## register.html

```
<html>
<head>
    <title>Register</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
</head>
<body>
    <form action="register.jsp" method="post" id="styleform">
         <h2>User Registration</h2><hr color="black"><br>
```

```
Username: <input type="text" name="user" required/><br><br>
    Password: <input type="password" name="pwd" required/><br>
    <input type="submit" value="Register" id="stylesub"/>
    Already have an account? <a href="Login.html">Login here</a>
  </form>
</body>
</html>
Login.jsp
<@@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
  <head>
  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
  <title>Login</title>
  </head>
  <body>
  < @ page import = "java.sql.*" %>
  < @ page import = "javax.sql.*" %>
  <%String username = request.getParameter("user");</pre>
  String pwd = request.getParameter("pwd");
  Class.forName("com.mysql.jdbc.Driver");
  java.sql.Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/emp","root","root");
  Statement st= con.createStatement();
  ResultSet rs= st.executeQuery("select * from users where user id="+username+"");
  if(rs.next())
  {if(rs.getString(2).equals(pwd)) {
    session.setAttribute("user",rs.getString(1));
    String name=(String)session.getAttribute("user");
    out.println("Welcome "+ name);
  System.out.println("Invalid password try again");
  %></body>
</html>
Register.jsp
< @ page import = "java.sql.*" %>
< @ page import = "javax.sql.*" %>
  String userid = request.getParameter("user");
  String pwd = request.getParameter("pwd");
  String confirmPwd = request.getParameter("confirm pwd");
  String fullName = request.getParameter("full_name");
```

```
if (!pwd.equals(confirmPwd)) {
     out.println("Passwords do not match. Please go back and try again.");
     return;
  }
  try {
     Class.forName("com.mysql.jdbc.Driver");
     java.sql.Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/emp","root","root");
     PreparedStatement ps = con.prepareStatement("insert into users (user_id, password,
full name) values (?, ?, ?)");
     ps.setString(1, userid);
     ps.setString(2, pwd);
     ps.setString(3, fullName);
     int i = ps.executeUpdate();
     if (i > 0) {
       out.println("Registration successful! You can now <a href='Login.html'>login here</a>.");
       out.println("Registration failed. Please try again.");
     ps.close();
     con.close();
  } catch (Exception e) {
     e.printStackTrace();
     out.println("An error occurred during registration: " + e.getMessage());
%>
```

**OUTPUT:** 

Registration successful! You can now login here.

Login Authentication
Username:
Password:
Submit
Don't have an account? Register here
User Registration
Username: Test
Password:
Confirm Password:
Full Name: Testuse
Register
Already have an account? Login here

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.sql.*;
public class Student extends HttpServlet {
  // Database connection details
  String JDBC_DRIVER = "com.mysql.jdbc.Driver";
  String DB_URL = "jdbc:mysql://localhost/ise";
  String USER = "root";
  String PASS = "root";
  // doGet method to handle both displaying records and operations (insert, update, delete)
  public void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException,
IOException {
    response.setContentType("text/html");
    PrintWriter out = response.getWriter();
    String title = "Database Result";
    String docType =
      "<!doctype html public \"-//w3c//dtd html 4.0 " + "transitional//en\">\n";
    out.println(docType +
        "<html>\n" +
```

```
"<head><title>" + title + "</title></head>\n" +
    "<body bgcolor = \"#f0f0f0\">\n" +
    "<h1 align = \"center\">" + title + "</h1>\n");
// Get the action parameter for delete or update
String action = request.getParameter("action");
String id = request.getParameter("id");
try {
 // Establish database connection
  Class.forName("com.mysql.jdbc.Driver");
  Connection conn = DriverManager.getConnection(DB URL, USER, PASS);
 // Handle delete operation
 if ("delete".equals(action) && id != null) {
    String deleteSQL = "DELETE FROM student WHERE id = ?";
    PreparedStatement stmt = conn.prepareStatement(deleteSQL);
    stmt.setInt(1, Integer.parseInt(id));
    stmt.executeUpdate();
    stmt.close();
    response.sendRedirect("Student"); // Redirect to show updated records
    return; // End execution after redirect
 }
 // Handle update operation
 if ("update".equals(action) && id != null) {
    String name = request.getParameter("name");
    String age = request.getParameter("age");
    String updateSQL = "UPDATE student SET name = ?, age = ? WHERE id = ?";
    PreparedStatement stmt = conn.prepareStatement(updateSQL);
    stmt.setString(1, name);
```

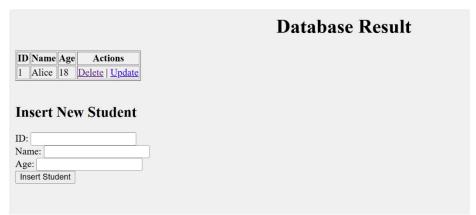
```
stmt.setInt(2, Integer.parseInt(age));
       stmt.setInt(3, Integer.parseInt(id));
       stmt.executeUpdate();
       stmt.close();
       response.sendRedirect("Student"); // Redirect to show updated records
       return; // End execution after redirect
     }
     // Display records from the student table
     Statement stmt = conn.createStatement();
     String sql = "SELECT * FROM student";
     ResultSet rs = stmt.executeQuery(sql);
     out.println("");
     out.println("ID");
     while (rs.next()) {
       int studentId = rs.getInt(1);
       String name = rs.getString(2);
       int age = rs.getInt(3);
       out.println("" + studentId + "" + name + "" + age +
           "<a href='?action=delete&id=" + studentId + "'>Delete</a> | " +
           "<a href='?action=update&id=" + studentId + "&name=" + name + "&age=" + age +
"'>Update</a>");
     }
     out.println("<br>");
     // Display Insert Form (Allow ID input as user will enter it manually)
     out.println("<h2>Insert New Student</h2>");
     out.println("<form action='Student' method='POST'>" +
         "ID: <input type='number' name='id' required><br>" +
         "Name: <input type='text' name='name' required><br>" +
```

```
"Age: <input type='number' name='age' required><br>" +
           "<input type='submit' value='Insert Student'>" +
           "</form>");
      out.println("</body></html>");
      rs.close();
      stmt.close();
      conn.close();
    } catch (SQLException | ClassNotFoundException se) {
      out.println(se);
      se.printStackTrace();
    }
 // doPost method to handle Insert operation
  public void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException,
IOException {
    response.setContentType("text/html");
    PrintWriter out = response.getWriter();
    String id = request.getParameter("id");
    String name = request.getParameter("name");
    String age = request.getParameter("age");
    // Insert Student into the database
    if (id != null && name != null && age != null) {
      try {
        Class.forName("com.mysql.jdbc.Driver");
        Connection conn = DriverManager.getConnection(DB_URL, USER, PASS);
        String insertSQL = "INSERT INTO student (id, name, age) VALUES (?, ?, ?)";
        PreparedStatement stmt = conn.prepareStatement(insertSQL);
```

```
stmt.setInt(1, Integer.parseInt(id));
stmt.setString(2, name);
stmt.setInt(3, Integer.parseInt(age));
stmt.executeUpdate();
stmt.close();
conn.close();

response.sendRedirect("Student"); // Refresh the page to show new records
} catch (SQLException | ClassNotFoundException e) {
    out.println(e);
    e.printStackTrace();
}
}
```

### **OUTPUT:**



	<b>Database Result</b>
ID Name Age Actions	
Insert New Student	
ID: Name:	
Age: Insert Student	

	<b>Database Result</b>
ID Name Age Actions	
In cont None Ct., Joseph	
Insert New Student	
ID: 1 Name: Alice	
Age: 18 \$	