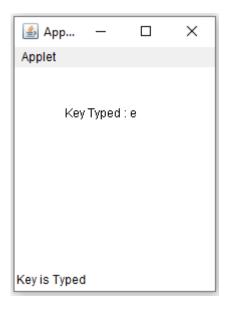
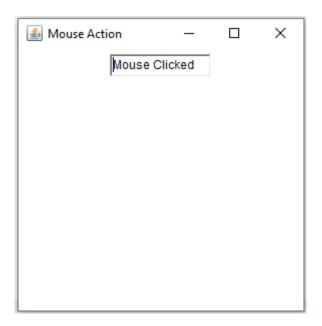
```
import java.applet.Applet;
import java.awt.Graphics;
import java.awt.event.KeyEvent;
import java.awt.event.KeyListener;
import java.awt.event.MouseMotionListener;
public class Exp1 KeyBoardEvents extends Applet implements
KeyListener{
     String str;
     public void init() {
           addKeyListener(this);
     }
     @Override
     public void keyPressed(KeyEvent e) {
           str = "Key Pressed";
           showStatus("Key is Pressed");
           repaint();
     }
     @Override
     public void keyReleased(KeyEvent e) {
           str = "Key Released";
           showStatus("Key is Released");
           repaint();
     }
     @Override
     public void keyTyped(KeyEvent e) {
           char key = e.getKeyChar();
           str = "Key Typed : " ;
           str+= key;
           showStatus("Key is Typed");
           repaint();
     }
     public void paint(Graphics g) {
           g.drawString(str, 50, 50);
     }
}
```



```
import java.awt.*;
import java.awt.event.*;
public class Exp2_MouseEvents extends Frame implements MouseListener {
      String str;
      Frame f;
      TextField tf;
      Exp2_MouseEvents(){
            f = new Frame("Mouse Action");
            f.setSize(300, 300);
            f.setLayout(new FlowLayout());
            tf =new TextField("Mouse Event");
            tf.setSize(100, 50);
            f.add(tf);
            f.addMouseListener(this);
            f.setVisible(true);
            f.addWindowListener( new WindowAdapter(){
                  public void windowClosing(WindowEvent e){
                        f.dispose();
                  }
            });
      @Override
      public void mouseClicked(MouseEvent arg0) {
            str="Mouse Clicked";
            tf.setText(str);
      @Override
      public void mouseEntered(MouseEvent arg0) {
            str="Mouse Entered";
            tf.setText(str);
      }
      @Override
      public void mouseExited(MouseEvent arg0) {
            str="Mouse Exited";
            tf.setText(str);
      @Override
      public void mousePressed(MouseEvent arg0) {
            str="Mouse Button Pressed";
            tf.setText(str);
      }
      @Override
      public void mouseReleased(MouseEvent arg0) {
            str="Mouse Button Released";
            tf.setText(str);
      }
      public static void main(String [] args){
            Exp2_MouseEvents obj=new Exp2_MouseEvents();
      }
}
```

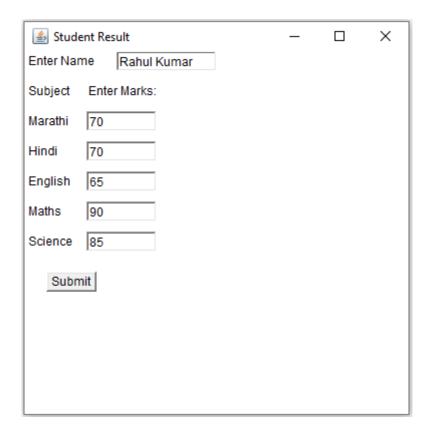


```
import java.awt.*;
import java.awt.event.*;
public class Exp3_GUI {
     Frame f, f2;
     TextField tf1, tf2, tf3, tf4, tf5, tfn;
     Exp3 GUI() {
           f = new Frame("Student Result");
           f.setLayout(null);
           f.setSize(400, 400);
           f.setVisible(true);
           f.addWindowListener(new WindowAdapter() {
                public void windowClosing(WindowEvent e) {
                      f.dispose();
                 }
           });
           Label In = new Label("Enter Name");
           ln.setBounds(10, 30, 90, 20);
           f.add(ln);
           tfn = new TextField();
           tfn.setBounds(100, 30, 100, 20);
           f.add(tfn);
           Label 1 = new Label("Subject");
           1.setBounds(10, 60, 50, 20);
           f.add(1);
           Label 11 = new Label("Enter Marks: ");
           11.setBounds(70, 60, 70, 20);
           f.add(11);
           Label 12 = new Label("Marathi");
           12.setBounds(10, 90, 60, 20);
           f.add(12);
           tf1 = new TextField();
           tf1.setBounds(70, 90, 70, 20);
           f.add(tf1);
           Label 13 = new Label("Hindi");
           13.setBounds(10, 120, 60, 20);
           f.add(13);
           tf2 = new TextField();
           tf2.setBounds(70, 120, 70, 20);
           f.add(tf2);
```

```
Label 14 = new Label("English");
           14.setBounds(10, 150, 60, 20);
          f.add(14);
          tf3 = new TextField();
          tf3.setBounds(70, 150, 70, 20);
          f.add(tf3);
           Label 15 = new Label("Maths");
           15.setBounds(10, 180, 60, 20);
          f.add(15);
          tf4 = new TextField();
          tf4.setBounds(70, 180, 70, 20);
          f.add(tf4);
           Label 16 = new Label("Science");
           16.setBounds(10, 210, 60, 20);
          f.add(16);
          tf5 = new TextField();
          tf5.setBounds(70, 210, 70, 20);
          f.add(tf5);
           Button b = new Button("Submit");
           b.setBounds(30, 250, 50, 20);
          f.add(b);
           b.addActionListener(new ActionListener() {
                public void actionPerformed(ActionEvent arg0) {
                      f2 = new Frame("Student Result");
                      f2.setLayout(null);
                      f2.setSize(400, 400);
                      f2.setVisible(true);
                      f2.addWindowListener(new WindowAdapter() {
                          public void windowClosing(WindowEvent e) {
                                 f2.dispose();
                           }
                      });
                      Label 1b = new Label("Result of
"+tfn.getText());
                      lb.setBounds(10, 30, 200, 20);
                      f2.add(lb);
                      int s1 = Integer.parseInt(tf1.getText());
                      int s2 = Integer.parseInt(tf2.getText());
                      int s3 = Integer.parseInt(tf3.getText());
                      int s4 = Integer.parseInt(tf4.getText());
                      int s5 = Integer.parseInt(tf5.getText());
```

```
lb1.setBounds(10, 60, 90, 20);
                      f2.add(lb1);
                      Label 1b2 = new Label("Hindi: " + s2);
                      1b2.setBounds(10, 90, 90, 20);
                      f2.add(1b2);
                      Label 1b3 = new Label("English: " + s3);
                      1b3.setBounds(10, 120, 90, 20);
                      f2.add(1b3);
                      Label 1b4 = new Label("Maths: " + s4);
                      1b4.setBounds(10, 150, 90, 20);
                      f2.add(1b4);
                      Label 1b5 = new Label("Science: " + s5);
                      1b5.setBounds(10, 180, 90, 20);
                      f2.add(1b5);
                      int sum = s1 + s2 + s3 + s4 + s5;
                      float pctg = (float) sum/5;
                      Label 1b6 = new Label("Total Marks : " + sum);
                      1b6.setBounds(10, 210, 100, 20);
                      f2.add(1b6);
                      Label 1b7 = new Label("Percentage : " + pctg);
                      1b7.setBounds(10, 240, 100, 20);
                      f2.add(1b7);
                      String str;
                      if(pctg>=40) {
                            str = "PASS";
                      }
                      else {
                            str="FAIL";
                      Label lb8 = new Label("Status : " + str);
                      1b8.setBounds(10, 270, 100, 20);
                      f2.add(1b8);
                 }
           });
     public static void main(String[] args) {
           Exp3_GUI ex = new Exp3_GUI();
     }
}
```

Label lb1 = new Label("Marathi: " + s1);



🕌 Student Result	_	×
Result of Rahul Kumar		
Marathi: 70		
Hindi: 70		
English: 65		
Maths: 90		
Science: 85		
Total Marks : 380		
Percentage: 76.0		
Status : PASS		

```
import java.sql.*;
public class Exp4 JDBC {
public static void main(String[] args) {
          //Create database : "jdbcdb"
          //Create table in this database
/*
                CREATE TABLE studentdata (
                     SrNo INT(5),
                     RollNo INT(6),
                     first_name VARCHAR(255),
                     last_name VARCHAR(255),
                     email_id VARCHAR(255),
                     mobile BIGINT(10)
                );
          String url = "jdbc:mysql://localhost:3306/jdbcdb";
          String usr = "root";
          String psw = "";
          String query1 = "insert into studentdata values(1, 304,
'Karan', 'Kumar', 'abc@gmail.com', 1239874560)";
          String query2 = "select * from studentdata";
          try {
                Class.forName("com.mysql.jdbc.Driver");
                Connection con = DriverManager.getConnection(url,
usr, psw);
                Statement stmt = con.createStatement();
                System.out.println("Inserting data...");
                stmt.execute(query1);
                System.out.println("Data after insertion...");
                ResultSet rs = stmt.executeQuery(query2);
                System.out.println("Sr.No. " + "Roll No. " + "First
      Name
                while(rs.next()){
                     System.out.println(" " + rs.getInt("SrNo") +
     " + rs.getInt("RollNo") + " " +
rs.getString("first_name") + "
                                     " + rs.getString("last_name")
       " + rs.getString("email id") + " " +
rs.getString("mobile"));
                }
          } catch (SQLException e) {
                e.printStackTrace();
           } catch (ClassNotFoundException e) {
                e.printStackTrace();
          }
     }
}
```

Inserting data...

Data after insertion...

Sr.No. Roll No. First Name Last Name Email ID Mobile No. 1 304 Karan Kumar abc@gmail.com 1239874560

#### **Client Side**

```
PallindromeInterface.java
import java.rmi.Remote;
import java.rmi.RemoteException;
public interface PallindromeInterface extends Remote{
      public boolean checkPallindrome(String str) throws RemoteException;
}
                           PallindromeClient.java
import java.rmi.*;
import java.util.Scanner;
public class PallindromeClient {
      public static void main (String[] args) {
            PallindromeInterface stub;
            Scanner sc = new Scanner(System.in);
            try {
                  stub =
(PallindromeInterface)Naming.Lookup("rmi://localhost/abc");
                  System.out.println("Enter string to check pallindrome:
");
                  String s = sc.next();
                  boolean result=stub.checkPallindrome(s);
                  if(result) {
                     System.out.println("String is Pallindrome Sequence");
                  else{
```

}

}

}

}

}catch (Exception e) {

System.out.println("Not a Pallindrome");

System.out.println("HelloClient exception:"+e);

" + e);

}

}

}

```
import java.rmi.Remote;
import java.rmi.RemoteException;
public interface PallindromeInterface extends Remote{
      public boolean checkPallindrome(String str) throws RemoteException;
}
                              Pallindrome.java
import java.rmi.RemoteException;
import java.rmi.server.UnicastRemoteObject;
public class Pallindrome extends UnicastRemoteObject implements
PallindromeInterface {
      protected Pallindrome() throws RemoteException {
            super();
      }
      public boolean checkPallindrome(String s) {
          String reverse = "";
          int length = s.length();
          for(int i = length-1; i >= 0; i-- )
             reverse = reverse + s.charAt(i);
          if(s.equals(reverse))
            return true;
          else
            return false;
      }
}
                           PallindromeServer.java
import java.rmi.Naming;
public class PallindromeServer {
      public static void main (String[] argv) {
               try {
                     Pallindrome skeleton = new Pallindrome();
                     Naming.rebind("rmi://localhost/abc", skeleton);
                     System.out.println("Server is ready...");
               }catch (Exception e) {
                           System.out.println("Server failed to start...:
```

PallindromeInterface.java

Enter string to check pallindrome:

abcdcba

String is Pallindrome Sequence

Enter string to check pallindrome:

abcde

Not a Pallindrome

```
import java.net.*;
public class Exp6_InetAddress {
      public static void main(String args[]) throws UnknownHostException {
            System.out.println("Details of Machine getLocalHost(): ");
            InetAddress Address = InetAddress.getLocalHost();
            System.out.println(Address);
            System.out.println();
            System.out.println("Details of Machine getByName(): ");
            Address = InetAddress.getByName("DESKTOP-6BINVTE"); //PC Name
            System.out.println(Address);
            System.out.println();
            System.out.println("Details 'www.google.com' getByName(): ");
            InetAddress SW1[]= InetAddress.getAllByName("www.google.com");
            for (int i=0; i<SW1.length; i++)</pre>
                  System.out.println(SW1[i]);
            System.out.println();
            System.out.println("Details 'www.sinhgad.com' getByName(): ");
            InetAddress SW2[]=InetAddress.getAllByName("www.sinhgad.com");
            for (int i=0; i<SW2.length; i++)</pre>
                  System.out.println(SW2[i]);
      }
}
```

```
Details of Machine getLocalHost():

DESKTOP-6BINVTE/192.168.1.3

Details of Machine getByName():

DESKTOP-6BINVTE/192.168.1.3

Details 'www.google.com' getByName():

www.google.com/142.251.42.36

Details 'www.sinhgad.com' getByName():

www.sinhgad.com/75.2.26.18

www.sinhgad.com/99.83.153.108
```

Login.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Login</title>
</head>
<body>
     <form action="Login" method="post">
           <h1>Login</h1>
           <label>Username</label>
           <input type="text" name="username">
           <br><br><br>>
           <label>Password</label>
           <input type="password" name="password">
           <br><br><br>>
           <input type="submit" value="Submit"><br/>
     </form>
</body>
</html>
```

```
Login.java (Servlet)
import java.io.IOException;
import java.sql.ResultSet;
import java.sql.SQLException;
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 Login
@WebServlet("/Login")
public class Login extends HttpServlet {
      private static final long serialVersionUID = 1L;
    * @see HttpServlet#HttpServlet()
    public Login() {
        super();
    }
       * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
      protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
            response.getWriter().append("Served at:
").append(request.getContextPath());
      }
/**
       *@see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
      protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
            String username = request.getParameter("username");
            String password = request.getParameter("password");
            response.getWriter().print("Client: Username - " + username);
            response.getWriter().print("<br>");
            response.getWriter().print("Client: Password - " + password);
            response.getWriter().print("<br>>");
            UserDao ud = new UserDao();
            ResultSet rs = ud.readUser(username);
            try {
                  while(rs.next()) {
                         response.getWriter().print("Server: Username - " +
rs.getString(1));
                         response.getWriter().print("<br>");
                         response.getWriter().print("Server: Password - " +
rs.getString(2));
            } catch (SQLException e) {
                  e.printStackTrace();
            }
      }
}
```

#### UserDao.java

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.Scanner;
public class UserDao {
      Scanner sc = new Scanner(System.in);
      String driver = "com.mysql.jdbc.Driver";
      String url = "jdbc:mysql://localhost:3306/jdbcdb";
String user = "root";
      String pass = "";
      PreparedStatement pstmt = null;
      Connection con = null;
      public Connection createConnection() {
            try{
                  Class.forName(driver);
                  con = DriverManager.getConnection(url,user,pass);
            }catch(Exception e){
                  System.out.println(e);
            }
            return con;
      public ResultSet readUser(String str) {
            ResultSet rs = null;
            Connection con = createConnection();
            String query = "SELECT * FROM ClientServerData WHERE
username=?";
            try {
                  pstmt=con.prepareStatement(query);
                  pstmt.setString(1, str);
                  rs=pstmt.executeQuery();
            } catch (SQLException e) {
                  e.printStackTrace();
            }
            return rs;
      }
}
```

# Login

Username	amit
l	
Password	•••
Submit	

Client: Username - amit

Client: Password - 589

Server: Username - amit Server: Password - 789

```
import java.sql.*;
import java.util.Scanner;
public class Exp8_JDBC_CURD {
     public static void main(String[] args) {
           //Create database : "jdbcdb"
           //Create table in this database
/*
                 CREATE TABLE classdata (
                      RollNo INT(6),
                      first name VARCHAR(255),
                      last name VARCHAR(255),
                                                         */
                 );
           Scanner sc = new Scanner(System.in);
           String url = "jdbc:mysql://localhost:3306/jdbcdb";
           String usr = "root";
           String psw = "";
           int rn = 0;
           String fn = "";
           String ln = "";
           char ctn = 'N';
           int ch = 0;
           String create = "";
           String read = "";
           String update = "";
           String delete = "";
           try {
                 Class.forName("com.mysql.jdbc.Driver");
                 Connection con = DriverManager.getConnection(url,
usr, psw);
                 Statement stmt = con.createStatement();
                 PreparedStatement pstmt = null;
                 ResultSet rs;
                 do {
                       System.out.println("Select CRUD Operation:");
                       System.out.println(" 1. Create \n 2. Read \n
3. Update \n 4. Delete ");
                       System.out.println("Enter your choice: ");
                       ch = sc.nextInt();
                       switch(ch) {
                            case 1:
                             System.out.println("Enter Roll No.: ");
                             rn = sc.nextInt();
                             System.out.println("Enter First Name:");
                             fn = sc.next();
                             System.out.println("Enter Last Name: ");
                             ln = sc.next();
                             create="insert into classdata values(?,
?, ?)";
```

```
pstmt = con.prepareStatement(create);
                             pstmt.setInt(1, rn);
                             pstmt.setString(2, fn);
                             pstmt.setString(3, ln);
                             pstmt.execute();
                             System.out.println("Data Inserted
Successfully");
                             break;
                            case 2:
                                 read = "select * from classdata";
                                 pstmt = con.prepareStatement(read);
                                 rs = pstmt.executeQuery(read);
                                 System.out.println("Roll No. " +
              " + "Last Name ");
"First Name
                                 while(rs.next()){
                                       System.out.println(" " +
rs.getInt("rollno") + "
                              " + rs.getString("first_name") + "
" + rs.getString("last name"));
                                 break;
                            case 3:
                                 System.out.println("Enter first
name of student whose roll no is to update: ");
                                 fn = sc.next();
                                 System.out.println("Enter correct
roll no.: ");
                                 rn = sc.nextInt();
                                 update = "UPDATE classdata SET
RollNo = ? WHERE first name = ?";
                                 pstmt=con.prepareStatement(update);
                                 pstmt.setInt(1, rn);
                                 pstmt.setString(2, fn);
                                 pstmt.execute();
                                 System.out.println("Data Updated
Successfully");
                                 break;
                            case 4:
                                 System.out.println("Enter roll no
of student to delete record: ");
                                 rn = sc.nextInt();
```

```
delete = "DELETE FROM classdata
WHERE RollNo=" + rn;
                                 pstmt=con.prepareStatement(delete);
                                 pstmt.execute();
                                 System.out.println("Data Deleted
Successfully");
                                 break;
                            default :
                                 System.out.println("Choice Not
Matched...!");
                      System.out.println("Do you want to continue:
Y/N");
                      ctn = sc.next().charAt(0);
                 }while(Character.toUpperCase(ctn)=='Y');
                 con.close();
                System.out.println("Program Terminated...!");
           } catch (SQLException e) {
                 e.printStackTrace();
           } catch (ClassNotFoundException e) {
                e.printStackTrace();
           }
     }
}
```

```
Select CRUD Operation :
 1. Create
 2. Read
 3. Update
4. Delete
Enter your choice:
1
Enter Roll No.:
101
Enter First Name:
Karan
Enter Last Name:
Kumar
Data Inserted Successfully
Do you want to continue: Y/N
Select CRUD Operation:
 1. Create
 2. Read
 Update
4. Delete
Enter your choice:
Roll No. First Name Last Name
  210
            Amar
                        Singh
  101
            Karan
                         Kumar
Do you want to continue: Y/N
y
Select CRUD Operation:
 1. Create
 2. Read
 3. Update
 4. Delete
Enter your choice:
Enter first name of student whose roll no is to update:
Amar
Enter correct roll no.:
102
Data Updated Successfully
Do you want to continue: Y/N
```

```
У
Select CRUD Operation:
 1. Create
 2. Read
 3. Update
 4. Delete
Enter your choice:
Roll No. First Name
                    Last Name
  102
            Amar
                        Singh
  101
            Karan
                         Kumar
Do you want to continue: Y/N
y
Select CRUD Operation:
 1. Create
 2. Read
 3. Update
 4. Delete
Enter your choice:
4
Enter roll no of student to delete record:
Data Deleted Successfully
Do you want to continue: Y/N
Select CRUD Operation:
 1. Create
 2. Read
 3. Update
 4. Delete
Enter your choice:
Roll No. First Name
                    Last Name
            Karan
                         Kumar
Do you want to continue: Y/N
Program Terminated...!
```

#### index.html

#### index.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
   pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
     <h1>Welcome to JSP</h1>
     <br>
     <%
          String n = request.getParameter("un");
          int no = Integer.parseInt(n);
          out.println("Number Entered is: " + no);
          out.println("Cube of Number: " + no*no*no);
     %>
</body>
</html>
```

Enter the number : 9	Submit
----------------------	--------

# Welcome to JSP

Number Entered is: 9

Cube of Number: 729

## Registration.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Registration</title>
</head>
<body>
     <form action="Registration" method="post">
           <h1>Registration Details</h1>
           <label>Username</label>
           <input type="text" name="username">
           <br><br><br>>
           <label>Password</label>
           <input type="password" name="password">
           <br><br><br>>
           <label>Email Id</label>
           <input type="email" name="email">
           <br><</pre>
           <label>Country</label>
           <input type="text" name="country">
           <br><</pre>
           <input type="submit" value="Register"><br/>
     </form>
</body>
</html>
```

```
Registration.java (Servlet)
import java.io.IOException;
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 Registration
@WebServlet("/Registration")
public class Registration extends HttpServlet {
     private static final long serialVersionUID = 1L;
    * @see HttpServlet#HttpServlet()
    public Registration() {
        super();
    }
       * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
     protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
           response.getWriter().append("Served at:
").append(request.getContextPath());
      * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
     protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
           String username = request.getParameter("username");
           String password = request.getParameter("password");
           String email = request.getParameter("email");
           String country = request.getParameter("country");
           UserBean usr = new UserBean();
           usr.setUsername(username);
           usr.setPassword(password);
           usr.setEmail(email);
           usr.setCountry(country);
           System.out.println("Records: "+ usr.toString());
           RegistrationDao regdao = new RegistrationDao();
           regdao.createUser(usr);
           response.getWriter().print("User Registered Successfully");
     }
}
```

# UserBean.java

```
public class UserBean {
     private String username;
     private String password;
     private String email;
     private String country;
     public UserBean() {
           super();
     public UserBean(String username, String password, String
email, String country) {
           super();
           this.username = username;
           this.password = password;
           this.email = email;
           this.country = country;
     }
     public String getUsername() {
           return username;
     public void setUsername(String username) {
           this.username = username;
     public String getPassword() {
           return password;
     public void setPassword(String password) {
           this.password = password;
     public String getEmail() {
           return email;
     }
     public void setEmail(String email) {
           this.email = email;
     public String getCountry() {
           return country;
     public void setCountry(String country) {
           this.country = country;
     @Override
     public String toString() {
           return "UserBean [username=" + username + ", password=" +
password + ", email=" + email + ", country=" + country + "]";
}
```

#### RegistrationDao.java

```
import java.sql.*;
import java.util.Scanner;
public class RegistrationDao {
      Scanner sc = new Scanner(System.in);
      String driver = "com.mysql.jdbc.Driver";
      String url = "jdbc:mysql://localhost:3306/jdbcdb";
      String user = "root";
      String pass = "";
      PreparedStatement pstmt = null;
      Connection con = null;
      public Connection createConnection() {
            try{
                  Class.forName(driver);
                  con = DriverManager.getConnection(url,user,pass);
            }catch(Exception e){
                  System.out.println(e);
            }
            return con;
      public void createUser(UserBean usr) {
            Connection con = createConnection();
            String query = "INSERT INTO ServletData VALUES (?,?,?,?)";
            try {
                  pstmt=con.prepareStatement(query);
                  pstmt.setString(1, usr.getUsername());
                  pstmt.setString(2, usr.getPassword());
                  pstmt.setString(3, usr.getEmail());
                  pstmt.setString(4, usr.getCountry());
                  pstmt.execute();
                  System.out.println("User Registered Successfully");
            } catch (SQLException e) {
                  e.printStackTrace();
            }
      public void readUser() {
            Connection con = createConnection();
            String query = "SELECT * FROM ServletData";
            try {
                  pstmt=con.prepareStatement(query);
                  ResultSet rs=pstmt.executeQuery();
                  System.out.println("Data Recorded is as follows: ");
                  System.out.println("Username " + " Password " + "
EmailId " + "
                    Country");
                  while(rs.next())
                        System.out.println(" " + rs.getString(1)+"
"+rs.getString(2)+"
                          "+rs.getString(3)+" "+rs.getString(4));
            } catch (SQLException e) {
                  e.printStackTrace();
            }
      }
}
```

# **Registration Details**

Username java
<b>D</b>
Password •••
Email Id java@gmail.com
Country India
Register

User Registered Successfully

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.Scanner;
public class Exp11_JDBCResult {
      public static void main(String[] args) {
            //Create database : "jdbcdb"
            //Create table in this database
                        CREATE TABLE studentresult (
                         rollno INT(6),
                         first_name VARCHAR(255),
                        last_name VARCHAR(255),
                        subject1 INT(255),
                        subject2 INT(255),
                        subject3 INT(255),
                        subject4 INT(255),
                        subject5 INT(255),
                  );
            String url = "jdbc:mysql://localhost:3306/jdbcdb";
            String usr = "root";
            String psw = "";
            PreparedStatement pstmt = null;
            ResultSet rs;
            Scanner sc = new Scanner(System.in);
            System.out.println("Enter roll no: ");
            int rn = sc.nextInt();
            System.out.println("Enter first name: ");
            String fn = sc.next();
            System.out.println("Enter first name: ");
            String ln = sc.next();
            System.out.println("Enter Marks Subject 1: ");
            int sub1 = sc.nextInt();
            System.out.println("Enter Marks Subject 2: ");
            int sub2 = sc.nextInt();
            System.out.println("Enter Marks Subject 3: ");
            int sub3 = sc.nextInt();
            System.out.println("Enter Marks Subject 4: ");
            int sub4 = sc.nextInt();
            System.out.println("Enter Marks Subject 5: ");
            int sub5 = sc.nextInt();
```

```
try {
                  Class.forName("com.mysql.jdbc.Driver");
                  Connection con = DriverManager.getConnection(url, usr,
psw);
                  Statement stmt = con.createStatement();
                  String create = "insert into studentresult values(?, ?,
?, ?, ?, ?, ?, ?)";
                  pstmt = con.prepareStatement(create);
                  pstmt.setInt(1, rn);
                  pstmt.setString(2, fn);
                  pstmt.setString(3, ln);
                  pstmt.setInt(4, sub1);
                  pstmt.setInt(5, sub1);
                  pstmt.setInt(6, sub1);
                  pstmt.setInt(7, sub1);
                  pstmt.setInt(8, sub1);
                  pstmt.execute();
                  System.out.println("Data Inserted Successfully");
                  System.out.println("Your Result :");
                  String read = "SELECT rollno, first name, last name,
(subject1+subject2+subject3+subject4+subject5)/5 FROM studentresult WHERE
rollno = ?";
                  pstmt = con.prepareStatement(read);
                  pstmt.setInt(1, rn);
                  rs = pstmt.executeQuery();
                  System.out.println("Roll No. " + "First Name " + "Last
Name " + "Percentage");
                  while(rs.next()){
                        System.out.println(" " + rs.getInt(1) + "
+ rs.getString(2) + "
                           " + rs.getString(3) + "
rs.getInt(4));
                  }
            } catch (SQLException e) {
                  e.printStackTrace();
            } catch (ClassNotFoundException e) {
                  e.printStackTrace();
            }
      }
}
```

Enter roll no: 115 Enter first name: Kapil Enter first name: Dev Enter Marks Subject 1: 85 Enter Marks Subject 2: 75 Enter Marks Subject 3: 77 Enter Marks Subject 4: 65 Enter Marks Subject 5: 89 Data Inserted Successfully Your Result: First Name Last Name Percentage Roll No. 115 85 Kapil Dev