# Experiment No. 1

**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();

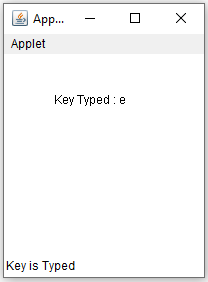
}

**public void** paint(Graphics g) { g.drawString(str, 50, 50);

}

}

OUTPUT



# Experiment No. 2

**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);

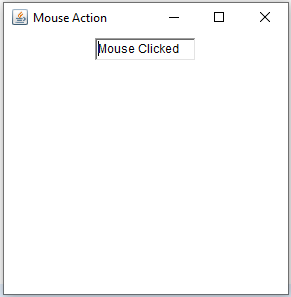
}

**public static void** main(String [] args){ Exp2\_MouseEvents obj=**new** Exp2\_MouseEvents();

}

}

OUTPUT



# Experiment No. 3

**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 ln = **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 l = **new** Label("Subject"); l.setBounds(10, 60, 50, 20); f.add(l);

Label l1 = **new** Label("Enter Marks: "); l1.setBounds(70, 60, 70, 20); f.add(l1);

Label l2 = **new** Label("Marathi"); l2.setBounds(10, 90, 60, 20); f.add(l2);

tf1 = **new** TextField(); tf1.setBounds(70, 90, 70, 20); f.add(tf1);

Label l3 = **new** Label("Hindi"); l3.setBounds(10, 120, 60, 20); f.add(l3);

tf2 = **new** TextField(); tf2.setBounds(70, 120, 70, 20); f.add(tf2);

Label l4 = **new** Label("English"); l4.setBounds(10, 150, 60, 20); f.add(l4);

tf3 = **new** TextField(); tf3.setBounds(70, 150, 70, 20); f.add(tf3);

Label l5 = **new** Label("Maths"); l5.setBounds(10, 180, 60, 20); f.add(l5);

tf4 = **new** TextField(); tf4.setBounds(70, 180, 70, 20); f.add(tf4);

Label l6 = **new** Label("Science"); l6.setBounds(10, 210, 60, 20); f.add(l6);

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();

}

});

"+tfn.getText());

Label lb = **new** Label("Result of

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());

Label lb1 = **new** Label("Marathi: " + s1); lb1.setBounds(10, 60, 90, 20); f2.add(lb1);

Label lb2 = **new** Label("Hindi: " + s2); lb2.setBounds(10, 90, 90, 20); f2.add(lb2);

Label lb3 = **new** Label("English: " + s3); lb3.setBounds(10, 120, 90, 20); f2.add(lb3);

Label lb4 = **new** Label("Maths: " + s4); lb4.setBounds(10, 150, 90, 20); f2.add(lb4);

Label lb5 = **new** Label("Science: " + s5); lb5.setBounds(10, 180, 90, 20); f2.add(lb5);

**int** sum = s1 + s2 + s3 + s4 + s5;

**float** pctg = (**float**) sum/5;

Label lb6 = **new** Label("Total Marks : " + sum); lb6.setBounds(10, 210, 100, 20);

f2.add(lb6);

Label lb7 = **new** Label("Percentage : " + pctg); lb7.setBounds(10, 240, 100, 20);

f2.add(lb7);

String str;

**if**(pctg>=40) {

str = "PASS";

}

### else {

str="FAIL";

}

});

}

Label lb8 = **new** Label("Status : " + str); lb8.setBounds(10, 270, 100, 20); f2.add(lb8);

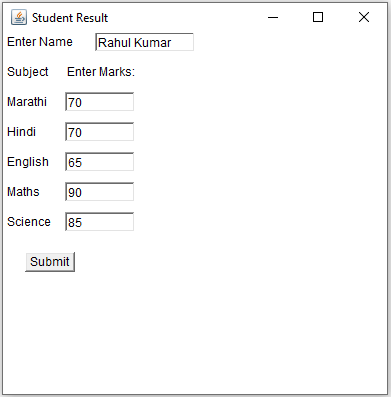
}

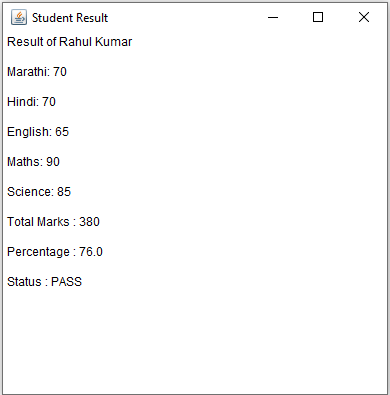
**public static void** main(String[] args) { Exp3\_GUI ex = **new** Exp3\_GUI();

}

}

OUTPUT





# Experiment No. 4

**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 {

usr, psw);

Class.*forName*("com.mysql.jdbc.Driver"); Connection con = DriverManager.*getConnection*(url,

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 " + "Last Name " + " Email ID " + " Mobile No.");

**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();

}

}

}

OUTPUT

Inserting data...

Data after insertion...

Sr.No. Roll No. First Name Last Name Email ID Mobile No.

1 304 Karan Kumar [abc@gmail.com](mailto:abc@gmail.com) 1239874560

# Client Side

**import** java.rmi.Remote;

# Experiment No. 5

## PallindromeInterface.java

**import** java.rmi.RemoteException;

**public interface** PallindromeInterface **extends** Remote{

**public boolean** checkPallindrome(String str) **throws** RemoteException;

}

**import** java.rmi.\*;

**import** java.util.Scanner;

## PallindromeClient.java

**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**{

}

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

}**catch** (Exception e) { System.***out***.println("HelloClient exception:"+e);

}

}

}

# Server Side

**import** java.rmi.Remote;

## PallindromeInterface.java

**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**;

}

}

**import** java.rmi.Naming;

## PallindromeServer.java

**public class** PallindromeServer {

**public static void** main (String[] argv) {

**try** {

Pallindrome skeleton = **new** Pallindrome();

" + e);

Naming.*rebind*("rmi://localhost/abc", skeleton); System.***out***.println("Server is ready...");

}**catch** (Exception e) {

System.***out***.println("Server failed to start...:

}

}

}

## OUTPUT

Enter string to check pallindrome: abcdcba

String is Pallindrome Sequence

Enter string to check pallindrome: abcde

Not a Pallindrome

# Experiment No. 6

**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*(["w](http://www.google.com/)w[w.google.com](http://www.google.com/)"); **for** (**int** i=0; i<SW1.length; i++)

System.***out***.println(SW1[i]); System.***out***.println();

System.***out***.println("Details 'www.sinhgad.com' getByName(): "); InetAddress SW2[]=InetAddress.*getAllByName*(["www.sinhgad.com"](http://www.sinhgad.com/)); **for** (**int** i=0; i<SW2.length; i++)

System.***out***.println(SW2[i]);

}

}

## OUTPUT

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](http://www.google.com/142.251.42.36)

Details 'www.sinhgad.com' getByName(): [www.sinhgad.com/75.2.26.18](http://www.sinhgad.com/75.2.26.18) [www.sinhgad.com/99.83.153.108](http://www.sinhgad.com/99.83.153.108)

# Experiment No. 7

## 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>

<label>Password</label>

<input type=*"password"* name=*"password"*>

<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><br>");

UserDao ud = **new** UserDao(); ResultSet rs = ud.readUser(username); **try** {

rs.getString(1)); rs.getString(2));

**while**(rs.next()) {

response.getWriter().print("Server: Username - " +

response.getWriter().print("<br>"); response.getWriter().print("Server: Password - " +

}

} **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;

}

}

## OUTPUT



Client: Username - amit Client: Password - 589

Server: Username - amit Server: Password – 789

# Experiment No. 8

**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** {

usr, psw);

Class.*forName*("com.mysql.jdbc.Driver"); Connection con = DriverManager.*getConnection*(url,

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

1. 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(?,

?, ?)";

Successfully");

pstmt = con.prepareStatement(create); pstmt.setInt(1, rn); pstmt.setString(2, fn); pstmt.setString(3, ln); pstmt.execute(); System.***out***.println("Data Inserted

**break**; **case** 2:

read = "select \* from classdata";

pstmt = con.prepareStatement(read); rs = pstmt.executeQuery(read);

"First Name " + "Last Name ");

System.***out***.println("Roll No. " +

**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();

roll no.: ");

System.***out***.println("Enter correct 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();

Successfully");

System.***out***.println("Data Updated

**break**; **case** 4:

System.***out***.println("Enter roll no

of student to delete record: ");

rn = sc.nextInt();

WHERE RollNo=" + rn;

Successfully");

Matched...!");

delete = "DELETE FROM classdata

pstmt=con.prepareStatement(delete); pstmt.execute();

System.***out***.println("Data Deleted

### break; default :

System.***out***.println("Choice Not

}

Y/N");

System.***out***.println("Do you want to continue:

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();

}

}

}

OUTPUT

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 y

Select CRUD Operation:

1. Create
2. Read
3. Update
4. Delete

Enter your choice:

2

Roll No. First Name Last Name

210 Amar Singh

1. Karan Kumar Do you want to continue: Y/N y

Select CRUD Operation:

1. Create
2. Read
3. Update
4. Delete

Enter your choice:

3

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

y

Select CRUD Operation:

1. Create
2. Read
3. Update
4. Delete

Enter your choice:

2

Roll No. First Name Last Name

1. 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: 102

Data Deleted Successfully

Do you want to continue: Y/N y

Select CRUD Operation:

1. Create
2. Read
3. Update
4. Delete

Enter your choice:

2

Roll No. First Name Last Name

101 Karan Kumar Do you want to continue: Y/N n

Program Terminated...!

# Experiment No. 9

## index.html

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>AJP Exp-9</title>

</head>

<body>

<form action=*"index.jsp"*>

<label>Enter the number : </label>

<input type=*"text"* name=*"un"*>

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

<br>

</form>

</body>

</html>

## index.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

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>

<%

%>

</body>

</html>

String n = request.getParameter("un"); **int** no = Integer.parseInt(n); out.println("Number Entered is: " + no); out.println("<br> <br>");

out.println("Cube of Number: " + no\*no\*no);

## OUTPUT



**Welcome to JSP**

Number Entered is: 9 Cube of Number: 729

<!DOCTYPE html>

<html>

<head>

# Experiment No. 10

## Registration.html

<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>

<label>Password</label>

<input type=*"password"* name=*"password"*>

<br><br>

<label>Email Id</label>

<input type=*"email"* name=*"email"*>

<br><br>

<label>Country</label>

<input type=*"text"* name=*"country"*>

<br><br>

<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");

**public class** UserBean {

## UserBean.java

**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");

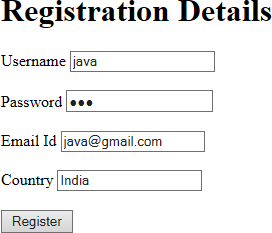
**while**(rs.next())

System.***out***.println(" " + rs.getString(1)+" "+rs.getString(2)+" "+rs.getString(3)+" "+rs.getString(4));

} **catch** (SQLException e) { e.printStackTrace();

}

## OUTPUT



User Registered Successfully

# Experiment No 11

**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();

psw);

**try** {

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

Connection con = DriverManager.*getConnection*(url, usr, 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();

}

}

}

## OUTPUT

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:

Roll No. First Name Last Name Percentage

115 Kapil Dev 85