

EXPERIMENT – 13

AIM: Write a Java program that connects to a database using JDBC

```
// Java Program to Establish Connection in JDBC

// Importing database
import java.sql.*;
// Importing required classes
import java.util.*;

// Main class
class Main {

    // Main driver method
    public static void main(String a[])
    {

        // Creating the connection using Oracle DB
        // Note: url syntax is standard, so do grasp
        String url = "jdbc:oracle:thin:@localhost:1521:xe";

        // Username and password to access DB
        // Custom initialization
        String user = "system";
        String pass = "12345";

        // Entering the data
        Scanner k = new Scanner(System.in);

        System.out.println("enter name");
        String name = k.next();

        System.out.println("enter roll no");
        int roll = k.nextInt();

        System.out.println("enter class");
        String cls = k.next();

        // Inserting data using SQL query
        String sql = "insert into student1 values('" + name + "'," + roll + "," + cls + ")";

        // Connection class object
        Connection con = null;

        // Try block to check for exceptions
        try {
```

```

// Registering drivers
DriverManager.registerDriver(new oracle.jdbc.OracleDriver());

// Reference to connection interface
con = DriverManager.getConnection(url, user, pass);

// Creating a statement
Statement st = con.createStatement();

// Executing query
int m = st.executeUpdate(sql);
if (m == 1)
    System.out.println(
        "inserted successfully : " + sql);
else
    System.out.println("insertion failed");

// Closing the connections
con.close();
}

// Catch block to handle exceptions
catch (Exception ex) {
    // Display message when exceptions occurs
    System.err.println(ex);
}
}
}

```

OUTPUT:

```

C:\Windows\System32\cmd.exe
E:\>javac Main.java
E:\>java Main
enter name
Abc
enter roll no
14
enter class
6a
inserted successfully : insert into student1 values('Abc',14,'6a')
E:\>

```

EXPERIMENT – 14

AIM: Write a Java program to connect to a database using JDBC and insert values into it.

// Java program to insert records to a table using JDBC

```
import java.io.*;
import java.sql.*;
```

```
public class Database {
```

```
    // url that points to mysql database, 'db' is database
```

```
    // name
```

```
    static final String url = "jdbc:mysql://localhost:3306/db";
```

```
    public static void main(String[] args)
```

```
        throws ClassNotFoundException
```

```
    {
```

```
        try {
```

```
            // this Class.forName() method is user for
```

```
            // driver registration with name of the driver
```

```
            // as argument
```

```
            // we have used MySQL driver
```

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

```
            // getConnection() establishes a connection. It takes url that points to your database,
```

```
            // username and password of MySQL connections as arguments
```

```
            Connection conn = DriverManager.getConnection( url, "root", "1234");
```

```
            // create.Statement() creates statement object
```

```
            // which is responsible for executing queries on table
```

```
            Statement stmt = conn.createStatement();
```

```
            // executeUpdate() is used for INSERT, UPDATE,
```

```
            // DELETE statements. It returns number of rows
```

```
            // affected by the execution of the statement
```

```
            int result = stmt.executeUpdate("insert into student(Id,name,number)
            values('1','rachel','45')");
```

```
            // if result is greater than 0, it means values has been added if (result > 0)
```

```
                System.out.println("successfully inserted");
```

```
            else
```

```
                System.out.println( "unsucessful insertion ");
```

```
            // closing connection
```

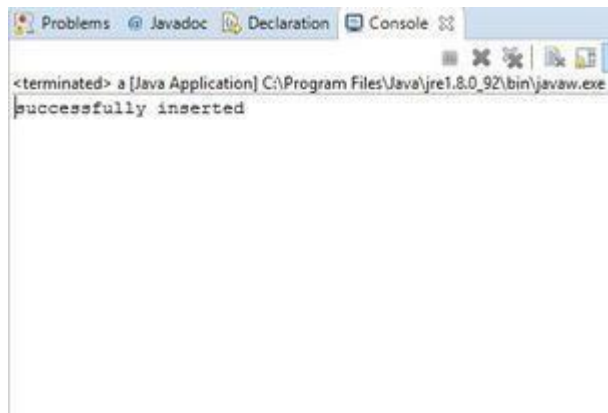
```
            conn.close();
```

```
        }
```

```
        catch (SQLException e)

        { System.out.println(e);
        }
    }
}
```

OUTPUT:



EXPERIMENT – 15

AIM : Write a Java program to connect to a database using JDBC and delete values from it

```
// Create JDBC Connection
import java.sql.*;

public class connection {

    Connection con = null;

    public static Connection connectDB()

    {
        try {

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

            Connection con = DriverManager.getConnection(
                "jdbc:mysql://localhost:3306/hotelman",
                "root", "1234");
            // here,root is the username and 1234 is the
            // password,you can set your own username and
            // password.
            return con;
        }
        catch (SQLException e) {

            System.out.println(e);
        }
    }
}

/*package whatever //do not write package name here */
import java.sql.*;
public class result {

    public static void main(String[] args)
    {
        Connection con=null;
        PreparedStatement p=null;
        con=connection.connectDB();
        try{
            String sql="delete from cuslogin where id=1";
            p =con.prepareStatement(sql);
            p.execute();
        }catch(SQLException e){
            System.out.println(e);
        }
    }
}
```

```
}  
  
}
```

OUTPUT

1 Messages						
2 Table Data						
3 Info						
<input type="checkbox"/>	name	password	email	address	phone	id
<input type="checkbox"/>	win	123	afsd	fa	57242887	2
<input type="checkbox"/>	gi	123	2@gmail.com	87/12	95175364	3
<input type="checkbox"/>	gi	abc	3@gmail	87/12	9517564	4
<input type="checkbox"/>	dita	123	1@gmail.com	82/11	9966445522	5
<input type="checkbox"/>	hari	123	har@gmail.com	oyur	456123789	6
<input type="checkbox"/>	wing	123	1@yahoo.com	90/12	235724	7
<input type="checkbox"/>	we	123	fd	dsa	1233	8
<input type="checkbox"/>	hulk	123	hulk@gmail.com	96/12	789	9
*	(NULL)	(NULL)	(NULL)	(NULL)	(NULL)	(Auto)

Database: hotelman Table: cuslogin

The customer whose id was 1, has been deleted.