1.JDBC simple application program

```
import java.sql.*;
class Oracle{
public static void main(String args[]){
try{
//step1 load the driver class
Class.forName("oracle.jdbc.driver.OracleDriver");

//step2 create  the connection object
Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:152
1:xe","pushpa","tiger");

//step3 create the statement object
Statement stmt=con.createStatement();
 String sql="select * from student";
//step4 execute query
ResultSet rs=stmt.executeQuery(sql);

while(rs.next())
System.out.println(rs.getInt(1)+"  "+rs.getString(2));

//step5 close the connection object
con.close();

}catch(Exception e)
{
      System.out.println(e);
      }

}
}
```

2.JDBC program for deletion of record

```
import java.sql.*;
class Deletion{
public static void main(String args[])throws Exception{
Class.forName("oracle.jdbc.driver.OracleDriver");
Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:152
1:xe","pushpa","tiger");
Statement stmt=con.createStatement();
int result=stmt.executeUpdate("delete from student  where
STUDENT_ID=16");
System.out.println(result+" records affected");
con.close();
}}
```

3.JDBC program for insertion of values to the record

```
import java.sql.*;
class FetchRecords{
public static void main(String args[])throws Exception{
Class.forName("oracle.jdbc.driver.OracleDriver");
Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:152
1:xe","pushpa","tiger");
con.setAutoCommit(true);

Statement stmt=con.createStatement();
stmt.executeUpdate("insert into student
values(16,'RAJKUMAR',5,'AIT')");

con.commit();
con.close();
}}
```

4. Transaction Program

```
import java.sql.*;
import java.io.*;
class TM{
public static void main(String args[]){
try{

Class.forName("oracle.jdbc.driver.OracleDriver");
Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:152
1:xe","pushpa","tiger");
con.setAutoCommit(false);

PreparedStatement ps=con.prepareStatement("insert into student
values(?,?,?,?)");

BufferedReader br=new BufferedReader(new
InputStreamReader(System.in));
while(true){

System.out.println("STUDENT_ID");
String s1=br.readLine();
int id=Integer.parseInt(s1);

System.out.println("enter name");
String name=br.readLine();
```

```
System.out.println("enter class");
String s3=br.readLine();
int cl=Integer.parseInt(s3);

System.out.println("enter add");
String add=br.readLine();


ps.setInt(1,id);
ps.setString(2,name);
ps.setInt(3,cl);
ps.setString(4,add);
ps.executeUpdate();

System.out.println("commit/rollback");
String answer=br.readLine();
if(answer.equals("commit")){
con.commit();
}
if(answer.equals("rollback")){
con.rollback();
}


System.out.println("Want to add more records y/n");
```

```
String ans=br.readLine();
if(ans.equals("n")){
break;
}

}
con.commit();
System.out.println("record successfully saved");

con.close();//before closing connection commit() is called
}catch(Exception e){System.out.println(e);}

}}
```

JDBC Simple Application Prgm using Mysql connectivity.

```
import java.sql.*;
class Mysql{
Public Static void main(String args[])
{
class.forName("com.mysql.jdbc.Driver");
Connection con = DriverManager.getConnection
("jdbc:mysql://localhost:3306/
Studentdetails", "root", "tiger");
(create database)
Statement Stmt = con.createStatement();
String SqL = "Select * from Student";
Resultset rs = Stmt.executeQuery(sql);
while (rs.next())
System.out.println(rs.getInt(1)+" "+
rs.getString(2));
con.close();
}catch(Exception e)
{ Sop(e);
}}
}.
```

Steps

```
mysql> Create database Studentdetails;
mysql> use Studentdetails;
mysql> Create table Studentdetails.Student
       ( S_id int(10), S_name varchar(10));
mysql> Insert into Studentdetails.Student
       values (10,'DS');
mysql> Insert into Studentdetails.Student
       values (10,'abc');
mysql> Select * from Studentdetails.Student;
mysql> commit;
```

S/w Required

① Oracle Software
② Install Oracle 10g Jar file } JDBC using Oracle connectivity

① MySQL S/w
② connectors Mysql } JDBC using MySQL connectivity

Commandline [SQL Cmd line]

SQL> Connect;
User-Name:
Password:
Connected } Provide valid username & Password for connection

SQL> Create table Student(S_id number(10), S_name varchar2(20), S_Address(20));
> Table created

SQL> Insert into Student values(10,'abc','BTM');
1 row Inserted
SQL> Insert into Student values(11,'xyz','RR');
1 row Inserted
SQL> Select * from Student; [table records will be displayed]

SQL> commit;