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Class : TE-A

Roll no : 13165

Batch : A3

Aim : . Implement MYSQL/Oracle database connectivity with front end language(Java) to implement Database navigation operations (add, delete, edit, etc.).

Program Code:

```java
package sample;

import java.sql.*;

import java.util.*;

import java.io.*; public

class New {

        public static void main(String arg[])

        {

        try{

        Class.forName("com.mysql.cj.jdbc.Driver");
Connection
conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/te_a3_13155","root","root");

                PreparedStatement stm=null;

                Statement stmt=conn.createStatement();

                int ch;

                Scanner sc=new Scanner(System.in);

            BufferedReader br=new BufferedReader(new InputStreamReader(System.in));


                do{

                int r;

                        String n = null;

    System.out.println("Enter Your choice \n1 Insert\n2 Update\n3 Delete\n4 Display\n5 Exit");
```

```java
                ch=sc.nextInt();
        switch(ch)
                {
                        case 1:
                        System.out.println("Enter Roll No");
        r=Integer.parseInt(br.readLine());
System.out.println("Enter Name");
                                n=br.readLine();


        String sql = "insert into student "+ " (roll,name)" + " values (?, ?)";
                                stm = conn.prepareStatement(sql);


                                // set param values
                stm.setInt(1, r);
                        stm.setString(2, n);


                                // 3. Execute SQL query
        stm.executeUpdate();


                                break;
        case 2:
                                System.out.println("Enter Roll No to update");
                r=Integer.parseInt(br.readLine());
    System.out.println("Enter Name");
                                n=br.readLine();
                        String query = "update student set name=? where roll=? ";
                stm = conn.prepareStatement(query);
    stm.setString(1, n);                                stm.setInt(2, r);
        stm.executeUpdate();
```

```java
                                        System.out.println("Record updated");
                break;                                          case
3:

                                        System.out.println("Enter Roll No to update");
                        r=Integer.parseInt(br.readLine());


                        String sql1="DELETE FROM student WHERE roll=?";
                        stm= conn.prepareStatement(sql1);
        stm.setInt(1, r);                                       stm.execute();
                                System.out.println("Record Deleted");


                                break;
                case 4:


                        String qr= "SELECT * FROM student ORDER BY roll";
                        ResultSet rs=stmt.executeQuery(qr);
                                while(rs.next())
                                {
                                        r=rs.getInt("roll");
        n=rs.getString("name");
                                         System.out.println("Roll No:"+r+ "\tName:"+n);
                                }
                                break;


                        case 5:System.out.println("Thank You");


                                break;
                        default:System.out.println("Invalid Choice");
```

```
                                    }
                        }while(ch!=5);
stmt.close();                        conn.close();
            }
            catch(Exception e)
            {
                    System.out.println(e);
            }
        }}
```

Output:

Enter Your choice

1 Insert

2 Update

3 Delete

4 Display

5 Exit

1

Enter Roll No

10 Enter

Name

riya

Enter Your choice

1 Insert

2 Update

3 Delete

4 Display

5 Exit

1

Enter Roll No

12

Enter Name

Raju

Enter Your choice

1 Insert

2 Update

3 Delete

4 Display

5 Exit

1

Enter Roll No

15

Enter Name

Sima

Enter Your choice

1 Insert

2 Update

3 Delete

4 Display

5 Exit

1

Enter Roll No

18

Enter Name

Neha

Enter Your choice

1 Insert

2 Update

3 Delete

4 Display

5 Exit

2

Enter Roll No to update

12

Enter Name

Joya

Record updated

Enter Your choice

1 Insert

2 Update

3 Delete

4 Display

5 Exit

4
Roll No:10   Name:riya
Roll No:12   Name:Joya

Roll No:15   Name:Sima

Roll No:18   Name:Neha
Enter Your choice

1 Insert

2 Update

3 Delete

4 Display

5 Exit

3

Enter Roll No to update

10

Record Deleted

Enter Your choice

1 Insert

2 Update

3 Delete

4 Display

5 Exit

4
Roll No:12   Name:Joya

Roll No:15   Name:Sima

Roll No:18   Name:Neha
Enter Your choice

1 Insert

2 Update

3 Delete

4 Display

5 Exit

5

Thank You

*Connection: package

sample; import

java.sql.*; public class

DBMS {

        public static final String DBURL =

"jdbc:mysql://localhost:3306/te_a3_13155";   public static final String DBUSER =

"root";   public static final String DBPASS = "root";

        public static void main(String[] args) {

                // TODO Auto-generated method stub

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

System.out.println("Driver is loaded successfully");

Connection con = DriverManager.getConnection(DBURL, DBUSER, DBPASS);


System.out.println("Connection is establish");


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


}
```

Output:

Driver is loaded successfully

Connection is establish