

# Java Full Stack Development

## Skilling-1

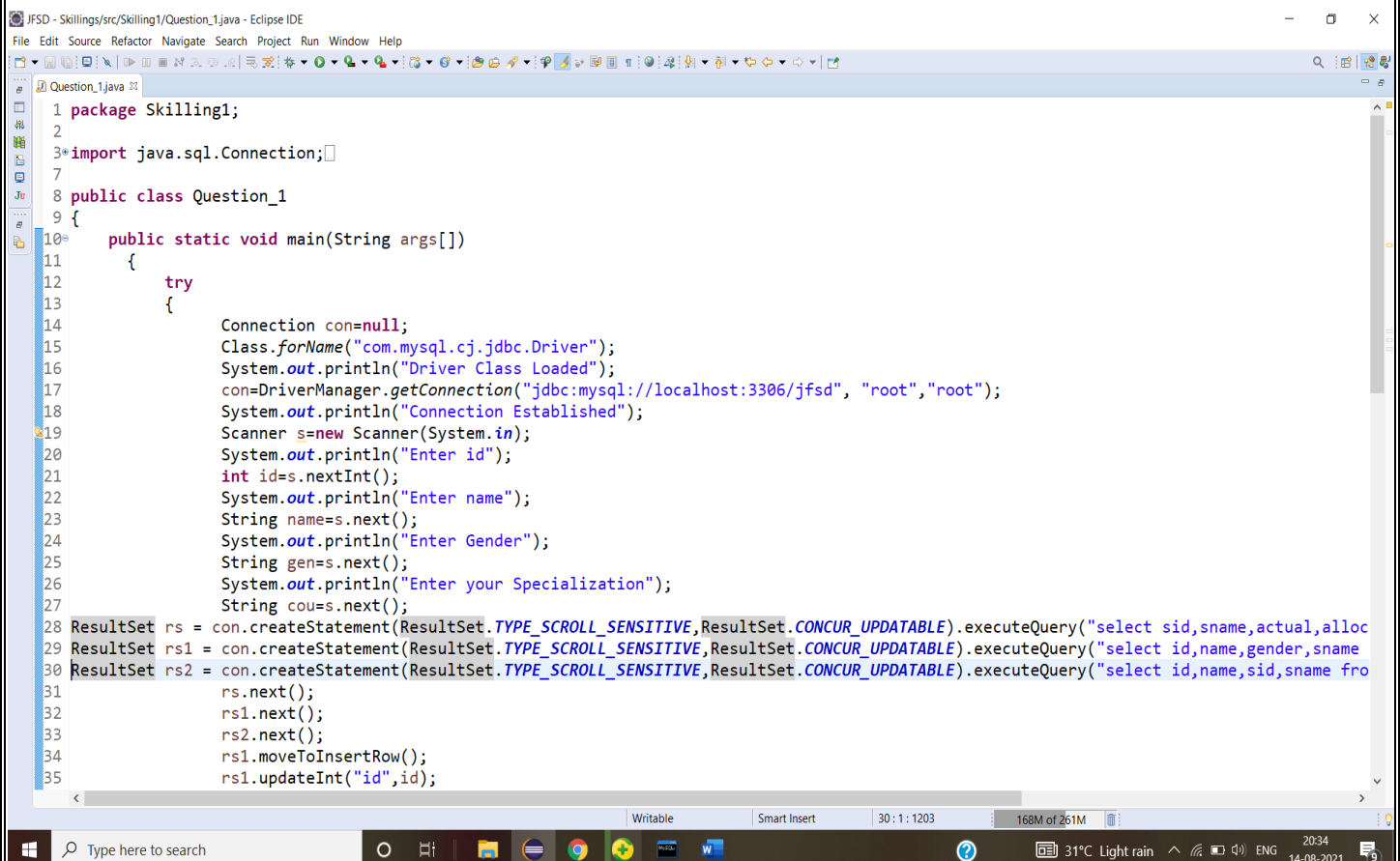
ID NO: 190030677

Name: K. Sravani

1. Develop a JDBC application where KL University students will be able to choose their specialization. But there will be limited slots for each specialization which must be stored and queried from database. After successfully selecting a specialization, Specialization along with student details must be stored in the database.

- Limit the slots for specialization
- User should be able to choose a specialization
- Once chose, Slots must be updated then student data must be saved in the database.
- View the Students data.

## Code Screenshots:



```
1 package Skilling1;
2
3 import java.sql.Connection;
4
5
6
7
8 public class Question_1
9 {
10     public static void main(String args[])
11     {
12         try
13         {
14             Connection con=null;
15             Class.forName("com.mysql.cj.jdbc.Driver");
16             System.out.println("Driver Class Loaded");
17             con=DriverManager.getConnection("jdbc:mysql://localhost:3306/jfsd", "root","root");
18             System.out.println("Connection Established");
19             Scanner s=new Scanner(System.in);
20             System.out.println("Enter id");
21             int id=s.nextInt();
22             System.out.println("Enter name");
23             String name=s.next();
24             System.out.println("Enter Gender");
25             String gen=s.next();
26             System.out.println("Enter your Specialization");
27             String cou=s.next();
28             ResultSet rs = con.createStatement(ResultSet.TYPE_SCROLL_SENSITIVE,ResultSet.CONCUR_UPDATABLE).executeQuery("select sid,sname,actual,alloc
29             ResultSet rs1 = con.createStatement(ResultSet.TYPE_SCROLL_SENSITIVE,ResultSet.CONCUR_UPDATABLE).executeQuery("select id,name,gender,sname
30             ResultSet rs2 = con.createStatement(ResultSet.TYPE_SCROLL_SENSITIVE,ResultSet.CONCUR_UPDATABLE).executeQuery("select id,name,sid,sname fro
31             rs.next();
32             rs1.next();
33             rs2.next();
34             rs1.moveToInsertRow();
35             rs1.updateInt("id",id);
```

JFSD - Skillings/src/Skilling1/Question\_1.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer: JFSD_Skillings, JUnitDemo, ScrollableUpdateable, Servers, Servlet, Servlet_Skill4_S01, Skillings, JRE System Library, src, Skillings1, JUnitTesting, Question_1, Question, Question2, Skillings2, Skillings3, Referenced Library, JUnit 5, XML-Demo
*Question_1.java
34 rs1.moveToInsertRow();
35 rs1.updateInt("id",id);
36 rs1.updateString("name",name);
37 rs1.updateString("gender",gen);
38 rs1.updateString("sname",cou);
39 rs1.insertRow();
40 System.out.println("Record is Inserted in to student table successfully");
41 int sid=rs.getInt(1);
42 String spe=rs.getString(2);
43 int act=rs.getInt(3);
44 int all=rs.getInt(4);
45 System.out.println(spe);
46 System.out.println(sid);
47 if(act>0)
48 {
49     rs2.moveToInsertRow();
50     rs2.updateInt("id",id);
51     rs2.updateString("name",name);
52     rs2.updateInt("sid",sid);
53     rs2.updateString("sname",cou);
54     rs2.insertRow();
55     System.out.println("Record is Inserted successfully");
56     System.out.println("Student Details");
57     System.out.println("=====");
58     System.out.println("Student Id: "+id);
59     System.out.println("Student Name: "+name);
60     System.out.println("Specialization Id: "+sid);
61     System.out.println("Specialization: "+cou);
62     rs.updateInt("actual",act-1);
63     rs.updateInt("allocated",all+1);
64     rs.updateRow();
65     System.out.println("Seats Updated");
66 }
```

Writable Smart Insert 53:51:2149 185M of 261M 31°C Light rain 20:36 14-08-2021

JFSD - Skillings/src/Skilling1/Question\_1.java - Eclipse IDE

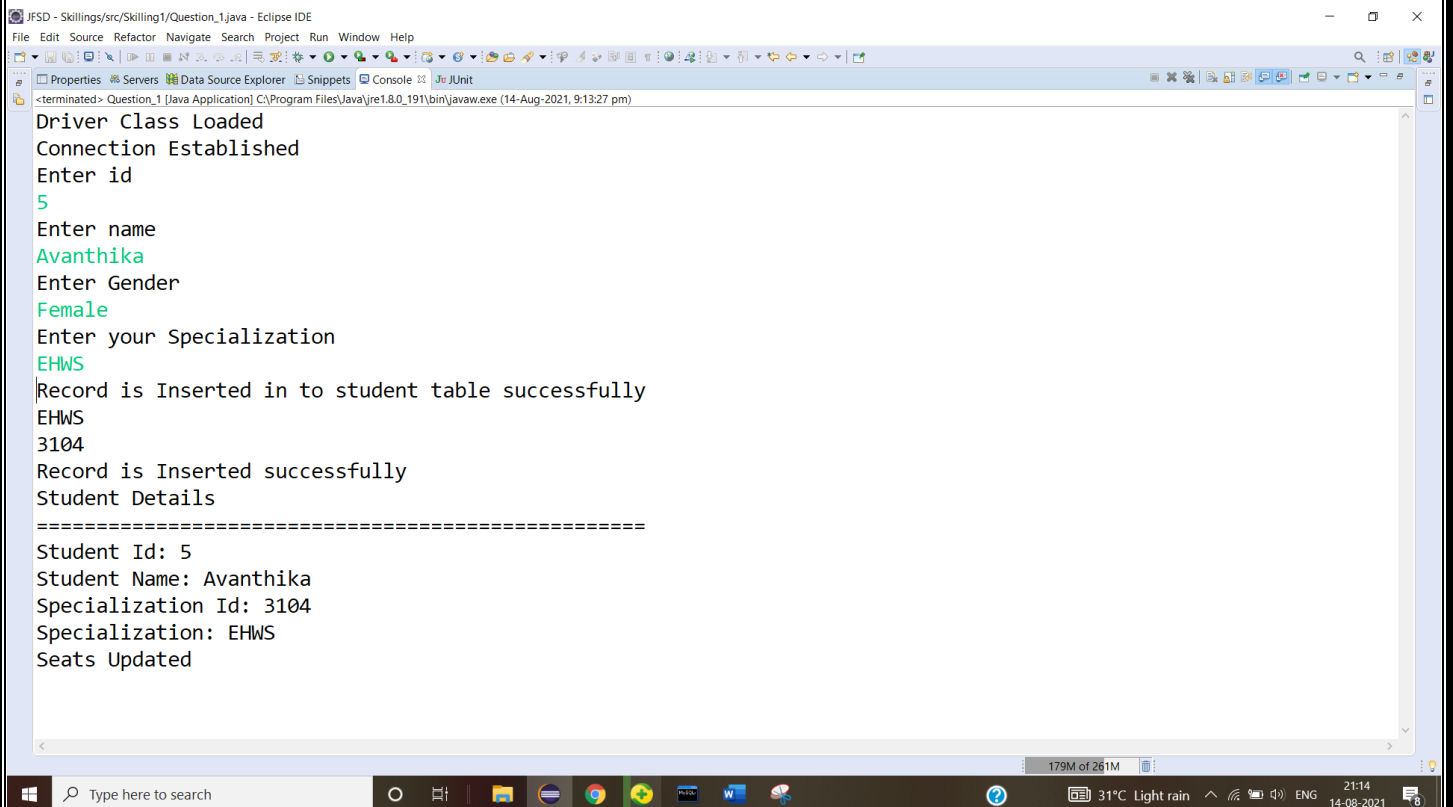
```
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer: JFSD_Skillings, JUnitDemo, ScrollableUpdateable, Servers, Servlet, Servlet_Skill4_S01, Skillings, JRE System Library, src, Skillings1, JUnitTesting, Question_1, Question, Question2, Skillings2, Skillings3, Referenced Library, JUnit 5, XML-Demo
*Question_1.java
47 if(act>0)
48 {
49     rs2.moveToInsertRow();
50     rs2.updateInt("id",id);
51     rs2.updateString("name",name);
52     rs2.updateInt("sid",sid);
53     rs2.updateString("sname",cou);
54     rs2.insertRow();
55     System.out.println("Record is Inserted successfully");
56     System.out.println("Student Details");
57     System.out.println("=====");
58     System.out.println("Student Id: "+id);
59     System.out.println("Student Name: "+name);
60     System.out.println("Specialization Id: "+sid);
61     System.out.println("Specialization: "+cou);
62     rs.updateInt("actual",act-1);
63     rs.updateInt("allocated",all+1);
64     rs.updateRow();
65     System.out.println("Seats Updated");
66 }
67 else
68 {
69     System.out.println("No sufficient Seats");
70 }
71 }
72 catch(Exception e)
73 {
74     System.out.println(e);
75 }
76 }
77 }
78 }
```

Writable Smart Insert 53:51:2149 187M of 261M 31°C Light rain 20:36 14-08-2021

## Output Screenshots:

### Before entering details:

```
mysql> select * from specialization;
+-----+-----+-----+-----+
| sid   | sname | actual | allocated |
+-----+-----+-----+-----+
| 3102  | AI    | 9      | 1         |
| 3103  | IOT   | 0      | 5         |
| 3104  | EHWS  | 5      | 0         |
| 3105  | SE    | 1      | 4         |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```



## Database Screenshots:

```
Select MySQL 8.0 Command Line Client
7 rows in set (0.16 sec)

mysql> desc student;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id     | int           | NO   | PRI | NULL    |       |
| name   | varchar(45)   | NO   |     | NULL    |       |
| gender | varchar(45)   | NO   |     | NULL    |       |
| sname  | varchar(45)   | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.30 sec)

mysql> select * from student;
+-----+-----+-----+-----+
| id | name      | gender | sname |
+-----+-----+-----+-----+
| 5  | Avanthika | Female | EHWS  |
| 6  | Radha    | Female | IOT   |
| 12 | Sravani   | Female | IOT   |
| 47 | Spoorthy | Female | IOT   |
| 56 | Gayathri  | Female | IOT   |
| 57 | Anitha    | Female | IOT   |
| 67 | Lakshmi   | Female | IOT   |
| 5678 | Sravani | Female | SE    |
| 6732 | Asifa     | Female | IOT   |
| 31973 | Sravani | Female | SE    |
| 45673 | Asifa   | Female | SE    |
| 14003594 | Gowthami | Female | AI    |
+-----+-----+-----+-----+
12 rows in set (0.04 sec)
```

```
Select MySQL 8.0 Command Line Client

mysql> desc specialization;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| sid    | int           | NO   | PRI | NULL    |       |
| sname  | varchar(45)   | NO   |     | NULL    |       |
| actual | int           | NO   |     | NULL    |       |
| allocated | int         | YES  |     | 0       |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> select * from specialization;
+-----+-----+-----+-----+
| sid | sname | actual | allocated |
+-----+-----+-----+-----+
| 3102 | AI    | 9      | 1         |
| 3103 | IOT   | 0      | 5         |
| 3104 | EHWS  | 4      | 1         |
| 3105 | SE    | 1      | 4         |
+-----+-----+-----+-----+
4 rows in set (0.04 sec)
```

```
Select MySQL 8.0 Command Line Client

mysql> desc allocation;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id     | int           | NO   | PRI | NULL    |       |
| name   | varchar(45)   | NO   |     | NULL    |       |
| sid    | int           | NO   |     | NULL    |       |
| sname  | varchar(45)   | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> select * from allocation;
+-----+-----+-----+-----+
| id | name      | sid | sname |
+-----+-----+-----+-----+
| 5  | Avanthika | 3104 | EHWS  |
| 12 | Sravani   | 3103 | IOT   |
| 47 | Spoorthy  | 3103 | IOT   |
| 56 | Gayathri  | 3103 | IOT   |
| 57 | Anitha    | 3103 | IOT   |
| 67 | Lakshmi   | 3103 | IOT   |
| 5678 | Sravani | 3105 | SE    |
| 31973 | Sravani | 3105 | SE    |
| 45673 | Asifa   | 3105 | SE    |
| 14003594 | Gowthami | 3102 | AI    |
+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```

2. We are entering into the 3rd year of our B. Tech; we all are aware that CRT (Campus Recruitment Training) starts from the sixth semester. Students are instructed to clear all the backlogs and try to increase their CGPA (Cumulative Grade Point Average) to get selected in CRT Programming. For that our Management wants to maintain the data in a database. Our Management wants you to create a table containing the details of students (Student ID Number, Student name, Gender, Year of Study, Department, K L Mail, CGPA, No of Backlogs present). Store at least 5 records in the database.

As per the instructions, few students cleared their backlogs and increased their CGPA, so you are instructed to update their backlogs and CGPA

Based on CGPA, if the CGPA is greater than 7.5 they are eligible to CRT Program and remaining students are not eligible. Delete the list of students who are not eligible and print the eligible students in console.

Apply Junit test cases for the above database.

Test Cases will be on:

Connection Establishment.

Check the backlogs are updated or not for those who cleared their backlogs.

## Code Screenshots:

```
1 package Skilling1;
2 import java.sql.Connection;
7 public class Question2
8 {
9     static Scanner s = new Scanner(System.in);
10    public static Connection getConnection()
11    {
12        Connection con=null;
13        try
14        {
15            Class.forName("com.mysql.cj.jdbc.Driver");
16            System.out.println("Driver Class Loaded");
17            con=DriverManager.getConnection("jdbc:mysql://localhost:3306/jfsd", "root","root");
18            System.out.println("Connection Established");
19        }
20        catch(Exception e)
21        {
22            System.out.println(e);
23        }
24        return con;
25    }
26    public static String Update()
27    {
28        String msg = null;
29        try
30        {
31            Connection con=null;
```

```
JFSD - Skillings/src/Skilling1/Question2.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Question2.java
26= public static String Update()
27 {
28     String msg = null;
29     try
30     {
31         Connection con=null;
32         con=getConnection();
33         System.out.println("Enter Id");
34         int sid=s.nextInt();
35         System.out.println("Enter Updated CGPA");
36         double ucgpa=s.nextDouble();
37         System.out.println("Enter Updated Backlogs");
38         int unob=s.nextInt();
39         ResultSet rs1 = con.createStatement(ResultSet.TYPE_SCROLL_SENSITIVE,ResultSet.CONCUR_UPDATABLE).executeQuery();
40         if(rs1.next())
41         {
42             rs1.updateDouble("cgpa",ucgpa);
43             rs1.updateInt("noofbacklogs", unob);
44             rs1.updateRow();
45             msg="Success";
46             System.out.println("Record Updated");
47         }
48         else
49         {
50             System.out.println("Check your id carefully if you are not insert your details enter your details by se");
51             System.out.println("If you have entered earlier but not present in the list then check in eligible list");
52         }

```

```
JFSD - Skillings/src/Skilling1/Question2.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Question2.java
64= public static void main(String[] args)
65 {
66     try {
67
68         Connection con=null;
69         con=getConnection();
70         System.out.println("===== WELCOME TO KL CRT DEPARTMENT =====");
71         while(true)
72         {
73             System.out.println("1. Insert Student Data");
74             System.out.println("2. Update Student Details");
75             System.out.println("3. Dividing Eligible students");
76             System.out.println("4. Display the Students");
77             System.out.println("5. Exit");
78             System.out.println("Enter your choice: ");
79             int choice = s.nextInt();
80             switch(choice)
81             {
82                 case 1: System.out.println("Inserting Data");
83                 System.out.println("Enter Id");
84                 int id=s.nextInt();
85                 System.out.println("Enter name");
86                 String name=s.next();
87                 System.out.println("Enter gender");
88                 String gender=s.next();
89                 System.out.println("Enter yearofstudy");
90

```

```
JFSD - Skillings/src/Skilling1/Question2.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Question2.java
89 String gender=s.next();
90 System.out.println("Enter yearofstudy");
91 String yos=s.next();
92 System.out.println("Enter department");
93 String dept=s.next();
94 System.out.println("Enter Mail Id");
95 String mail=s.next();
96 System.out.println("Enter CGPA");
97 double cgpa=s.nextDouble();
98 System.out.println("Enter No Of Backlogs");
99 int blgs=s.nextInt();
100 ResultSet rs = con.createStatement(ResultSet.TYPE_SCROLL_SENSITIVE,ResultSet.CONCUR_UPDATABLE).executeQuery();
101 rs.moveToInsertRow();
102 rs.updateInt("id",id);
103 rs.updateString("name",name);
104 rs.updateString("gender",gender);
105 rs.updateString("yearofstudy",yos);
106 rs.updateString("dept",dept);
107 rs.updateString("mailid",mail);
108 rs.updateDouble("cgpa", cgpa);
109 rs.updateInt("noofbacklogs",blgs);
110 rs.insertRow();
111 System.out.println("Record is Inserted successfully");
112 break;
113 case 2: System.out.println("Updating Student Details");
114 Update();
115 break;
```

```
JFSD - Skillings/src/Skilling1/Question2.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Question2.java
116 case 3: System.out.println("Dividing Eligible Students");
117 ResultSet rs3 = con.createStatement(ResultSet.TYPE_SCROLL_SENSITIVE,ResultSet.CONCUR_UPDATABLE).executeQuery();
118 while(rs3.next())
119 {
120     double pcgpa=rs3.getDouble(7);
121     if(pcgpa>7.5)
122     {
123         ResultSet rs2 = con.createStatement(ResultSet.TYPE_SCROLL_SENSITIVE,ResultSet.CONCUR_UPDATABLE).executeQuery();
124         rs2.moveToInsertRow();
125         rs2.updateInt("id",rs3.getInt(1));
126         rs2.updateString("name",rs3.getString(2));
127         rs2.updateString("yearofstudy",rs3.getString(4));
128         rs2.updateString("dept",rs3.getString(5));
129         rs2.updateString("mailid",rs3.getString(6));
130         rs2.updateDouble("cgpa", rs3.getDouble(7));
131         rs2.updateInt("noofbacklogs",rs3.getInt(8));
132         rs2.insertRow();
133         System.out.println("Record inserted Successfully with Id: "+rs3.getInt(1)+" name: "+rs3.getString(2));
134         rs3.deleteRow();
135         System.out.println("Records deleted in student table");
136     }
137     else
138     {
139         System.out.println("");
140         System.out.println("=====");
141         System.out.println("Ineligible list");
142     }
143 }
```



```
JFSD - Skillings/src/Skilling1/Question2.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

Question2.java
140     System.out.println("");
141     System.out.println("=====");
142     System.out.println("Ineligible list");
143     System.out.println("");
144     System.out.println("The Student with Id: "+rs3.getInt(1)+" is not eligible to CRT training because");
145     System.out.println("");
146 }
147
148 }
149 System.out.println("There are no more eligible students to divide");
150 break;
151 case 4: System.out.println("Eligible Students List");
152 System.out.println("=====");
153 ResultSet rs4=con.createStatement(ResultSet.TYPE_SCROLL_SENSITIVE,ResultSet.CONCUR_UPDATABLE).executeQuery();
154 while(rs4.next())
155 {
156     System.out.println("");
157     System.out.println(rs4.getString(2)+" with Id "+rs4.getInt(1)+"is Eligible for CRT Training with CGPA ");
158     System.out.println("");
159 }
160 break;
161 case 5: System.out.println("Exiting the application");
162 System.exit(0);
163 default: System.out.println("Incorrect input!!! Please re-enter choice from our menu");
164 }
165 }
166 }
```

## Junit Unit Testing:

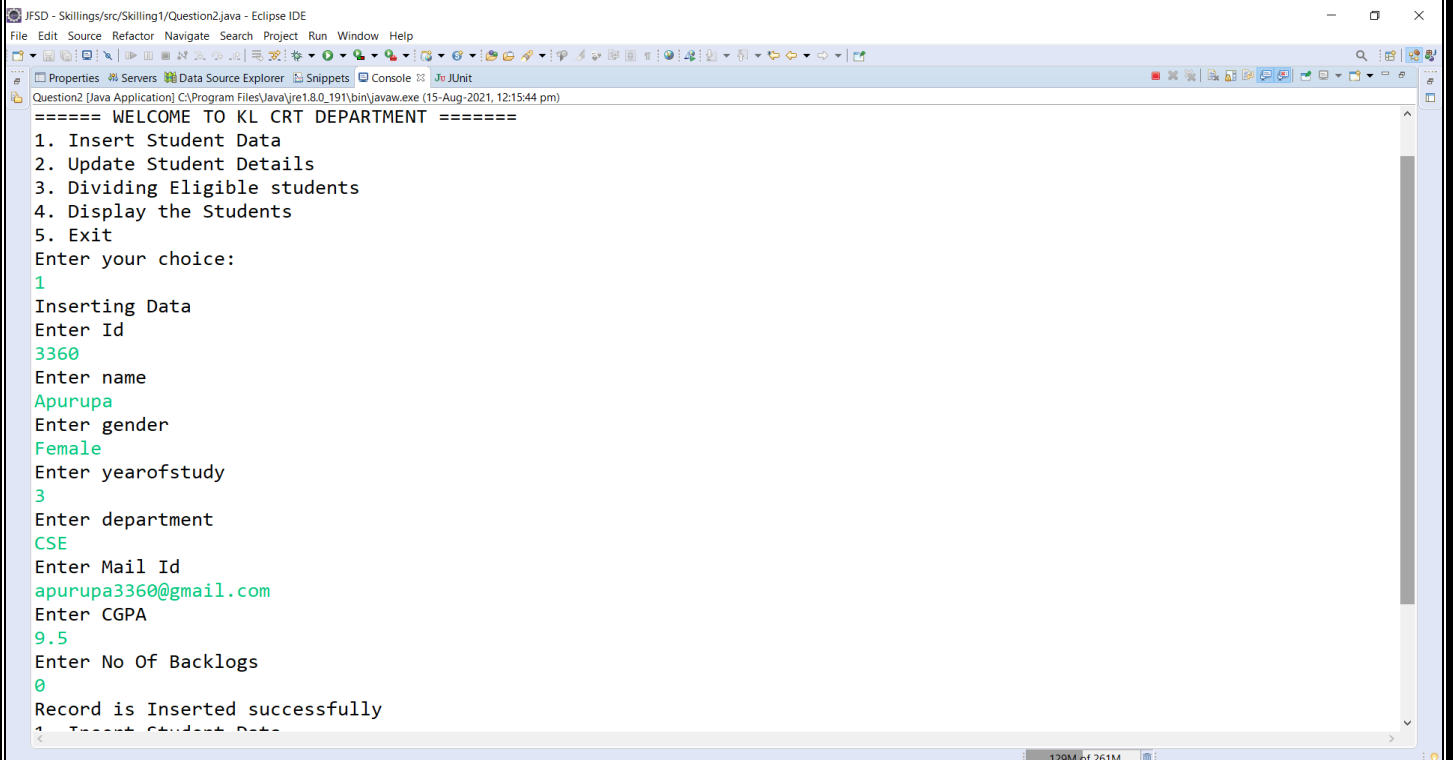
```
JFSD - Skillings/src/Skilling1/JunitTesting.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer
JDBC
JFSD_Skillings
JUnitDemo
ScrollableUpdatableResultSet
Servers
Servlet
Servlet_Skill4_S01
Skillings
JRE System Library [jre1.8.0_102]
src
Skilling1
JUnitTesting.java
Question_1.java
Question2.java
Question2
Skilling2
Skilling3
Referenced Libraries
JUnit 5
XML-Demo

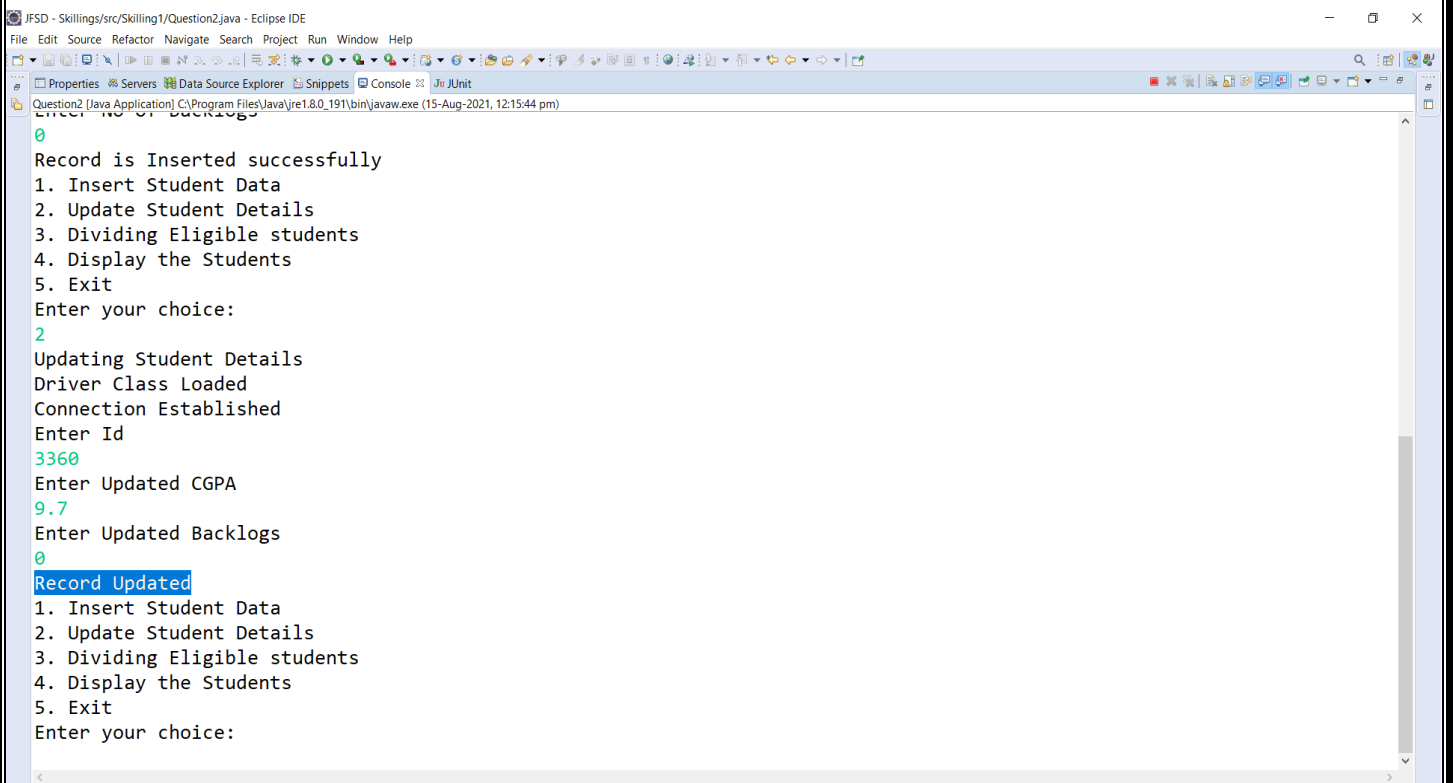
Question2.java
JUnitTesting.java
1 package Skillings1;
2 import static org.junit.Assert.assertEquals;
3
4
5
6
7 class JunitTesting {
8
9     @Test
10    public void DBConnection()
11    {
12        assertNotNull(Question2.getConnection());
13    }
14    @Test
15    public void updation()
16    {
17        assertEquals("Success",Question2.Update());
18    }
19 }
20
```



## Output Screenshots:



```
JFSD - Skillings/src/Skilling1/Question2.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Properties Servers Data Source Explorer Snippets Console JUnit
Question2 [Java Application] C:\Program Files\Java\jre1.8.0_191\bin\javaw.exe (15-Aug-2021, 12:15:44 pm)
===== WELCOME TO KL CRT DEPARTMENT =====
1. Insert Student Data
2. Update Student Details
3. Dividing Eligible students
4. Display the Students
5. Exit
Enter your choice:
1
Inserting Data
Enter Id
3360
Enter name
Apurupa
Enter gender
Female
Enter yearofstudy
3
Enter department
CSE
Enter Mail Id
apurupa3360@gmail.com
Enter CGPA
9.5
Enter No Of Backlogs
0
Record is Inserted successfully
1. Insert Student Data
```



```
JFSD - Skillings/src/Skilling1/Question2.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Properties Servers Data Source Explorer Snippets Console JUnit
Question2 [Java Application] C:\Program Files\Java\jre1.8.0_191\bin\javaw.exe (15-Aug-2021, 12:15:44 pm)
Enter No Of Backlogs
0
Record is Inserted successfully
1. Insert Student Data
2. Update Student Details
3. Dividing Eligible students
4. Display the Students
5. Exit
Enter your choice:
2
Updating Student Details
Driver Class Loaded
Connection Established
Enter Id
3360
Enter Updated CGPA
9.7
Enter Updated Backlogs
0
Record Updated
1. Insert Student Data
2. Update Student Details
3. Dividing Eligible students
4. Display the Students
5. Exit
Enter your choice:
```

```
JFSD - Skillings/src/Skillings1/Question2.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Properties Servers Data Source Explorer Snippets Console JUnit
Question2 [Java Application] C:\Program Files\Java\jre1.8.0_191\bin\javaw.exe (15-Aug-2021, 12:15:44 pm)

Enter your choice:
3
Dividing Eligible Students
Record inserted Successfully with Id: 2345 name: Bhanu with CGPA 7.8 in Eligible List
Records deleted in student table
Record inserted Successfully with Id: 3360 name: Apurupa with CGPA 9.7 in Eligible List
Records deleted in student table

=====
Ineligible list

The Student with Id: 7778 is not eligible to CRT training because of less CGPA:7.3 which is less than 7.5

=====
Ineligible list

The Student with Id: 7779 is not eligible to CRT training because of less CGPA:7.2 which is less than 7.5

Record inserted Successfully with Id: 33594 name: Gowthu with CGPA 9.3 in Eligible List
Records deleted in student table
Record inserted Successfully with Id: 14003594 name: K.Gowthami with CGPA 9.2 in Eligible List
Records deleted in student table
There are no more eligible students to divide
1. Insert Student Data
2. Update Student Details
```

```
JFSD - Skillings/src/Skillings1/Question2.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Properties Servers Data Source Explorer Snippets Console JUnit
Question2 [Java Application] C:\Program Files\Java\jre1.8.0_191\bin\javaw.exe (15-Aug-2021, 12:15:44 pm)

Enter your choice:
4
Eligible Students List
=====

Sravani with Id 677is Eligible for CRT Training with CGPA 9.11

Bhanu with Id 2345is Eligible for CRT Training with CGPA 7.8

Apurupa with Id 3360is Eligible for CRT Training with CGPA 9.7

Seema with Id 3456is Eligible for CRT Training with CGPA 9.3

Gowthami with Id 3594is Eligible for CRT Training with CGPA 9.2

Sakshi with Id 4532is Eligible for CRT Training with CGPA 8.7

srushti with Id 4567is Eligible for CRT Training with CGPA 9.1
```

## Database Screenshots:

```
MySQL 8.0 Command Line Client
10 rows in set (0.00 sec)

mysql> desc student_crt;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id     | int  | NO   | PRI | NULL    |       |
| name   | varchar(45) | NO   |     | NULL    |       |
| gender | varchar(45) | NO   |     | NULL    |       |
| yearofstudy | varchar(45) | NO   |     | NULL    |       |
| dept   | varchar(45) | NO   |     | NULL    |       |
| mailid | varchar(45) | NO   |     | NULL    |       |
| cgpa   | double | NO   |     | NULL    |       |
| noofbacklogs | int | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)

mysql> select * from student_crt;
+-----+-----+-----+-----+-----+-----+-----+-----+
| id | name | gender | yearofstudy | dept | mailid | cgpa | noofbacklogs |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 7778 | Rathnam | Female | 3 rd Year | CSE | rathnam7778@kluniversity.in | 7.3 | 2 |
| 7779 | Lakshmi | Female | 3 rd Year | CSE | lakshmi7779@kluniversity.in | 7.2 | 3 |
+-----+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
```

```
MySQL 8.0 Command Line Client

+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id     | int  | NO   | PRI | NULL    |       |
| name   | varchar(45) | NO   |     | NULL    |       |
| yearofstudy | varchar(45) | NO   |     | NULL    |       |
| dept   | varchar(30) | NO   |     | NULL    |       |
| mailid | varchar(45) | NO   |     | NULL    |       |
| cgpa   | double | NO   |     | NULL    |       |
| noofbacklogs | int | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)

mysql> select * from eligible_list;
+-----+-----+-----+-----+-----+-----+-----+-----+
| id | name | yearofstudy | dept | mailid | cgpa | noofbacklogs |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 677 | Sravani | 3rdYear | CSE | sravani677@kluniversity.in | 9.11 | 0 |
| 2345 | Bhanu | 3 | CSE | bhanu@gmail.com | 7.8 | 0 |
| 3360 | Apurupa | 3 | CSE | apurupa3360@gmail.com | 9.7 | 0 |
| 3456 | Seema | 3 | CSE | seema@kluniversity.in | 9.3 | 0 |
| 3594 | Gowthami | 4 | CSE | gowthami@kluniversity.in | 9.2 | 0 |
| 4532 | Sakshi | 3 | CSE | sakshi@kluniversity.in | 8.7 | 0 |
| 4567 | srushti | 3 | CSE | srushti@kluniversity.in | 9.1 | 0 |
| 7770 | Deepika | 3 rd Year | CSE | Deepika7770@kluniversity.in | 7.6 | 1 |
| 7776 | Bhavani | 3 rd Year | CSE | Bhavani7776@kluniversity.in | 7.6 | 0 |
| 7777 | Vani | 3 rd Year | CSE | Vani7777@kluniversity.in | 7.7 | 1 |
| 7832 | Spoorthy | 3 | CSE | spoorthy@kluniversity.in | 9.2 | 0 |
| 31559 | Asif | 3 | CSE | asif@kluniversity.in | 9.8 | 0 |
| 33594 | Gowthu | 3 | CSE | gowthu@gmail.com | 9.3 | 0 |
| 34567 | Maha | 3 | CSE | maha@kluniversity.in | 9.1 | 0 |
| 14003594 | K.Gowthami | 3 | CSE | gowthami@kluniversity.in | 9.2 | 0 |
+-----+-----+-----+-----+-----+-----+-----+-----+
15 rows in set (0.00 sec)
```

## JUnit Testing Output Screenshots:

