

JAVA SWINGS BASED- PREP PLACEMENTS
- SQL CONNECTIVITY USING JDBC

A

Report

*Submitted in partial fulfillment of the
Requirements for the award of the Degree of*

BACHELOR OF ENGINEERING

IN
INFORMATION TECHNOLOGY

By

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BONAFIDE CERTIFICATE

This is to certify that this project report titled '**PREP PLACEMENTS**' is a project work of Mr. Vivek Raj bearing roll no.1602-19-737-122 who carried out the project under my supervision in the IV semester for the academic year 2020- 2021.

Signature

Internal Examiner
Examiner

Signature

External

Abstract:

Prep placements is a console based database management project, in which company comes and recruit the most eligible students in their product based company. Firstly, every company will have its minimum cgpa criteria. Those students who have more cgpa than the company's min_cgpa are eligible to write the aptitude exam. The exam consists of multiple choice questions, marks will be evaluated based on the number of questions correct by each student. Based on the number of seats available in the company, students will get selected and will get a job in that particular company.

Requirement Analysis:

List of Tables:

- Student
- Company
- Is_eligible
- Exam
- Questions
- Isqualified
- Login

List of Attributes with their Domain Types:

Student

- sid number(5)
- sname varchar2(20)
- phone number(20)
- email varchar(50)
- branch varchar(10)
- cgpa float

Company

- cid number(10),
- cname varchar2(20)
- no_of_seats number(10)
- min_cgpa float

Is_eligible

- sid number(5)
- cid number(10)

Exam

- ex_id varchar(10)
- marks number(10)

Questions

- qid number(38)
- question varchar2(200)
- option1 varchar2(100)
- option2 varchar2(100)
- option3 varchar2(100)
- option4 varchar2(100)
- correct_opt varchar2(100)

Isqualified

- marks number(10)
- sid number(5)
- qualified varchar2(10)

AIM AND PRIORITY OF THE PROJECT

To create a Java GUI based prep placement which takes the values like: userid, password for login and students should take tests, based on their exam marks obtained, it gets updated into its table, admin can add questions for test conducted to the students. These values are to be updated in the database using JDBC connectivity.

ARCHITECTURE AND TECHNOLOGY

Software used: NetBeans Base IDE, Oracle 11g Database, Java SE version 13, SQL*Plus.

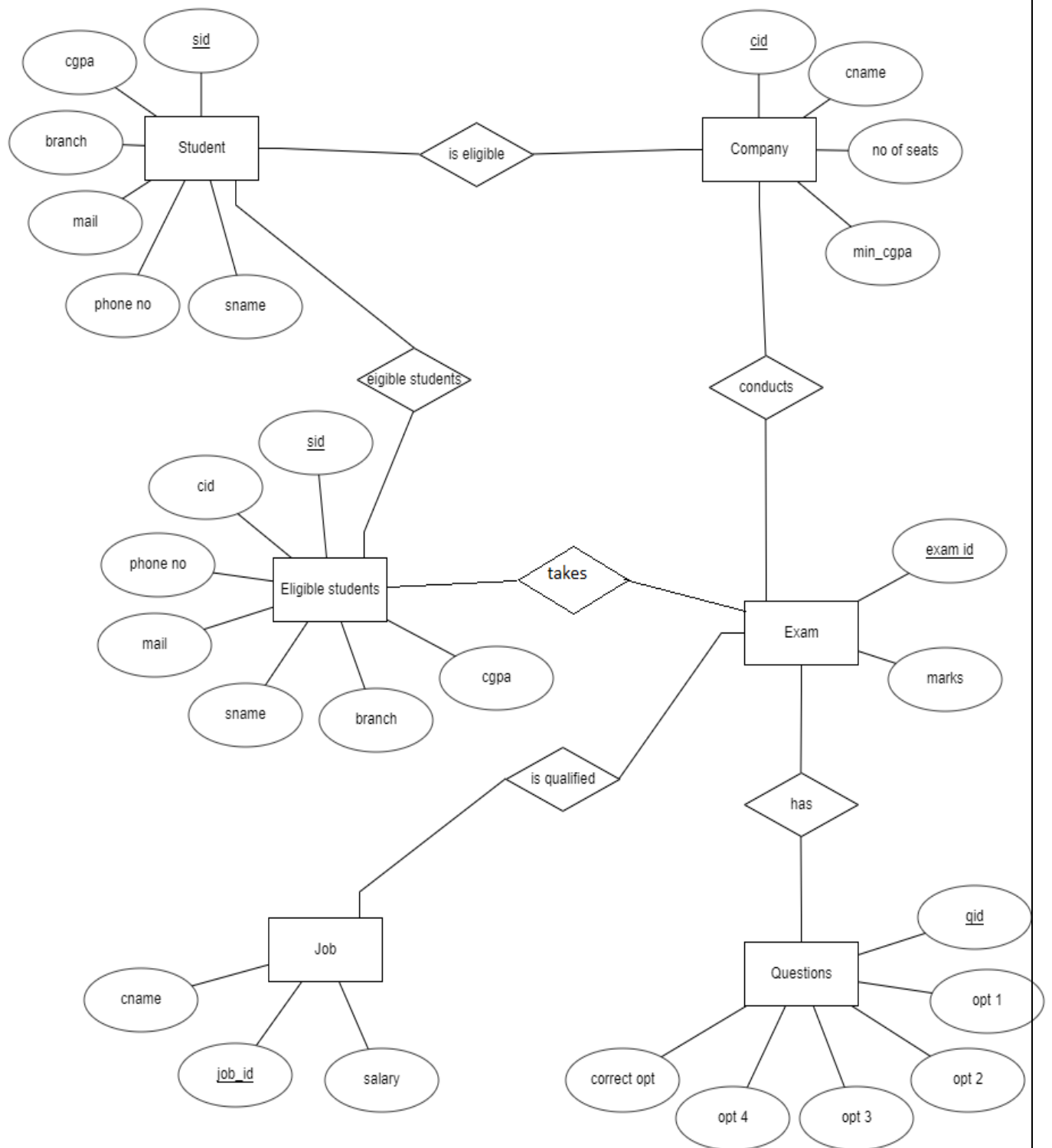
Java SWINGS:

Java SWINGS is an API to develop GUI or window-based applications in java. Java SWING components are platform-independent. It is lightweight. The javax.swing package provides classes for SWING API such as JTextField, JLabel, JTextArea, JRadioButton, JCheckBox, JChoice, JList etc.

SQL:

Structure Query Language(SQL) is a database query language used for storing and managing data in Relational DBMS. SQL was the first commercial language introduced for E.F Codd's **Relational** model of database. Today almost all RDBMS (MySQL, Oracle, Infomix, Sybase, MS Access) use **SQL** as the standard database query language. SQL is used to perform all types of data operations in RDBMS.

ER Diagram:



Mapping Cardinality and Participation Constraints:

Not every users are allowed to write the exam (so it is a partial participation) only the eligible students who has better cgpa than the companies mincgpa can write the exam.

Every eligible students can participate in many companies hence it is a many to many relationship(N-N).

Any company can conduct many number of exams with total participation and has many to many relationship

In each and every exam it consists of many number of questions depending on the questions the marks are evaluated, hence it is also a many to many relationship.


Only qualified students can take only one job at a time, hence it is a partial participation for eligible students, it is one to many relationship (1-N) since students can take only one job at a time.

DDL Commands:

1.Student

```
create table student(  
  2  sid number(5),  
  3  sname varchar2(20),  
  4  phone number(20),  
  5  email varchar(50),  
  6  branch varchar(10),  
  7  cgpa float,primary key(sid));
```

```
alter table student modify branch varchar(10) not null;  
alter table student modify cgpa float not null;
```

 Select Run SQL Command Line

```
SQL*Plus: Release 11.2.0.2.0 Production on Fri May 7 22:37:26 2021  
Copyright (c) 1982, 2010, Oracle. All rights reserved.  
  
SQL> conn it19737122/Vivek939  
Connected.  
SQL> spool D:\placements.txt  
SQL> create table student(  
  2  sid number(5),  
  3  sname varchar2(20),  
  4  phone number(20),  
  5  email varchar(50),  
  6  branch varchar(10),  
  7  cgpa float,primary key(sid));  
  
Table created.
```

```
SQL> alter table student modify branch varchar(10) not null;
Table altered.
SQL> alter table student modify cgpa float not null;
Table altered.
SQL> _
```

```
SQL> desc student;
```

Name	Null?	Type
SID	NOT NULL	NUMBER(5)
SNAME		VARCHAR2(20)
PHONE		NUMBER(20)
EMAIL		VARCHAR2(50)
BRANCH	NOT NULL	VARCHAR2(10)
CGPA	NOT NULL	FLOAT(126)

2. Company

```
create table company(
  2 cid number(10),
  3 cname varchar2(20),
  4 no_of_seats number(10),
  5 min_cgpa float,primary key(cid));
```

```
SQL> create table company(
  2 cid number(10),
  3 cname varchar2(20),
  4 no_of_seats number(10),
  5 min_cgpa float,primary key(cid));
Table created.
```

```
SQL> alter table company modify cname varchar2(20) not null;
Table altered.
SQL> alter table company modify min_cgpa float not null;
Table altered.
```



```
SQL> desc company;
Name                                         Null?    Type
-----
CID                                         NOT NULL NUMBER(10)
CNAME                                       NOT NULL VARCHAR2(20)
NO_OF_SEATS                                NUMBER(10)
MIN_CGPA                                    NOT NULL FLOAT(126)
SQL>
```

3. Is_eligible

```
create table is_eligible(
  2 sid number(5),
  3 cid number(10),
  4 foreign key(sid) references student,
  5 foreign key(cid) references company);
```

```
SQL> create table is_eligible(
  2 sid number(5),
  3 cid number(10),
  4 foreign key(sid) references student,
  5 foreign key(cid) references company);

Table created.
```

```
SQL> desc is_eligible;
Name                                         Null?    Type
-----
SID                                         NUMBER(5)
CID                                         NUMBER(10)
```

4. Exam

```
create table exam(
  2 ex_id varchar(10),
  3 marks number(10),
  4 primary key(ex_id));
```

alter table isqualified modify marks number(10) not null;

```
SQL> create table exam(
  2 ex_id varchar(10),
  3 marks number(10),
  4 primary key(ex_id));

Table created.
```

```
SQL> alter table exam modify marks number(10) not null;
```

```
Table altered.
```

```
SQL> desc exam;
```

Name	Null?	Type
EX_ID	NOT NULL	VARCHAR2(10)
MARKS	NOT NULL	NUMBER(10)

```
SQL> _
```

5. Questions

```
create table questions(
```

```
2 qid varchar(10),
```

```
3 correct_opt varchar(5));
```

```
alter table questions add primary key(qid);
```

```
SQL> create table questions(
```

```
2 qid varchar(10),
```

```
3 correct_opt varchar(5),
```

```
SQL> alter table questions add primary key(qid);
```

```
Table altered.
```

```
SQL> desc questions;
```

Name	Null?	Type
QID	NOT NULL	VARCHAR2(10)
CORRECT_OPT		VARCHAR2(5)
MARKED_OPT		VARCHAR2(5)
SID		NUMBER(5)

```
SQL> _
```

6. Isqualified

```
create table isqualified(
```

```
2 marks number(10),
```

```
3 sid number(5),
```

```
4 qualified varchar(10),
```

```
5 foreign key(sid) references student);
```

```
SQL> create table isqualified(  
  2  marks number(10),  
  3  sid number(5),  
  4  foreign key(sid) references student);  
  
Table created.
```

```
SQL> alter table isqualified add qualified varchar(10);  
  
Table altered.
```

```
SQL> desc isqualified;  
Name                               Null?      Type  
-----  
MARKS                             NOT NULL   NUMBER(10)  
SID                                NUMBER(5)  
QUALIFIED                          VARCHAR2(10)  
  
SQL>
```

7. Login

create table login(username varchar(50) primary key,
password varchar(40));

```
SQL> create table login(username varchar(50) primary key,  
  2  password varchar(40));  
  
Table created.
```

DML Commands:

1. insert into student values('&sid','&sname','&phone','&email','&branch','&cgpa');

```
SQL> insert into student values('&sid','&sname','&phone','&email','&branch','&cgpa');
Enter value for sid: 1
Enter value for sname: vivek
Enter value for phone: 94748484874
Enter value for email: vivek1234@gmail.com
Enter value for branch: it
Enter value for cgpa: 8.9
old 1: insert into student values('&sid','&sname','&phone','&email','&branch','&cgpa')
new 1: insert into student values('1','vivek','94748484874','vivek1234@gmail.com','it','8.9')

1 row created.

SQL> 2
SP2-0226: Invalid line number
SQL> /
Enter value for sid: 2
Enter value for sname: vamshi
Enter value for phone: 7643864442
Enter value for email: vamshi4673@gmail.com
Enter value for branch: cse
Enter value for cgpa: 8.4
old 1: insert into student values('&sid','&sname','&phone','&email','&branch','&cgpa')
new 1: insert into student values('2','vamshi','7643864442','vamshi4673@gmail.com','cse','8.4')

1 row created.
```

```
SQL> /
Enter value for sid: 3
Enter value for sname: rushith
Enter value for phone: 7439797490
Enter value for email: rushith343@gmail.com
Enter value for branch: mechanical
Enter value for cgpa: 9.2
old 1: insert into student values('&sid','&sname','&phone','&email','&branch','&cgpa')
new 1: insert into student values('3','rushith','7439797490','rushith343@gmail.com','mechanical','9.2')

1 row created.

SQL> /
Enter value for sid: 4
Enter value for sname: raghav
Enter value for phone: 9463543433
Enter value for email: raghav489@gmail.com
Enter value for branch: civil
Enter value for cgpa: 7.9
old 1: insert into student values('&sid','&sname','&phone','&email','&branch','&cgpa')
new 1: insert into student values('4','raghav','9463543433','raghav489@gmail.com','civil','7.9')

1 row created.

SQL> /
Enter value for sid: 5
Enter value for sname: rahul
Enter value for phone: 936964659
Enter value for email: rahul165@gmail.com
Enter value for branch: ece
Enter value for cgpa: 7.1
old 1: insert into student values('&sid','&sname','&phone','&email','&branch','&cgpa')
new 1: insert into student values('5','rahul','936964659','rahul165@gmail.com','ece','7.1')

1 row created.

SQL>
```

```

SQL> /
Enter value for sid: 5
Enter value for sname: rahul
Enter value for phone: 936964659
Enter value for email: rahul165@gmail.com
Enter value for branch: ece
Enter value for cgpa: 7.1
old 1: insert into student values('&sid','&sname','&phone','&email','&branch','&cgpa')
new 1: insert into student values('5','rahul','936964659','rahul165@gmail.com','ece','7.1')

1 row created.

SQL> select * from student;

   SID SNAME      PHONE      BRANCH      CGPA
-----
1 vivek      9.4748E+10      it          8.9
vivek1234@gmail.com
2 vamshi      7643864442      cse          8.4
vamshi4673@gmail.com
3 rushith      7439797490      mechanical    9.2
rushith343@gmail.com
   SID SNAME      PHONE      BRANCH      CGPA
-----
4 raghav      9463543433      civil          7.9
raghav489@gmail.com
5 rahul      936964659      ece           7.1
rahul165@gmail.com

```

2. insert into company values('&cid','&cname','&no_of_seats','&min_cgpa');

```
SQL> insert into company values('&cid','&cname','&no_of_seats','&min_cgpa');
Enter value for cid: 10
Enter value for cname: microsoft
Enter value for no_of_seats: 3
Enter value for min_cgpa: 7.5
old 1: insert into company values('&cid','&cname','&no_of_seats','&min_cgpa')
new 1: insert into company values('10','microsoft','3','7.5')

1 row created.

SQL> /
Enter value for cid: 11
Enter value for cname: google
Enter value for no_of_seats: 4
Enter value for min_cgpa: 7.3
old 1: insert into company values('&cid','&cname','&no_of_seats','&min_cgpa')
new 1: insert into company values('11','google','4','7.3')

1 row created.

SQL> /
Enter value for cid: 12
Enter value for cname: oracle
Enter value for no_of_seats: 2
Enter value for min_cgpa: 8.0
old 1: insert into company values('&cid','&cname','&no_of_seats','&min_cgpa')
new 1: insert into company values('12','oracle','2','8.0')

1 row created.

SQL> /
Enter value for cid: 13
Enter value for cname: tcs
Enter value for no_of_seats: 3
Enter value for min_cgpa: 7.6
old 1: insert into company values('&cid','&cname','&no_of_seats','&min_cgpa')
new 1: insert into company values('13','tcs','3','7.6')

1 row created.

SQL>
```

```

SQL> /
Enter value for cid: 14
Enter value for cname: amazon
Enter value for no_of_seats: 2
Enter value for min_cgpa: 8.3
old 1: insert into company values('&cid','&cname','&no_of_seats','&min_cgpa')
new 1: insert into company values('14','amazon','2','8.3')

1 row created.

SQL> select * from company;

```

CID	CNAME	NO_OF_SEATS	MIN_CGPA
10	microsoft	3	7.5
11	google	4	7.3
12	oracle	2	8
13	tcs	3	7.6
14	amazon	2	8.3

```

SQL> _

```

create table eligible_student as select * from student where cgpa>7.3;

```

SQL> create table eligible_student as select * from student where cgpa>7.3;
Table created.
SQL> select * from eligible_student;

```

SID	SNAME	PHONE	BRANCH	CGPA
1	vivek	9.4748E+10	it	8.9
2	vamshi	7643864442	cse	8.4
3	rushith	7439797490	mechanical	9.2
4	raghav	9463543433	civil	7.9

```

SQL>

```

3. insert into is_eligible values('&sid','&cid');

```

SQL> insert into is_eligible values('&sid','&cid');
Enter value for sid: 1
Enter value for cid: 11
old 1: insert into is_eligible values('&sid','&cid')
new 1: insert into is_eligible values('1','11')

1 row created.

SQL> /
Enter value for sid: 2
Enter value for cid: 10
old 1: insert into is_eligible values('&sid','&cid')
new 1: insert into is_eligible values('2','10')

1 row created.

SQL> /
Enter value for sid: 3
Enter value for cid: 11
old 1: insert into is_eligible values('&sid','&cid')
new 1: insert into is_eligible values('3','11')

1 row created.

SQL> /
Enter value for sid: 4
Enter value for cid: 12
old 1: insert into is_eligible values('&sid','&cid')
new 1: insert into is_eligible values('4','12')

1 row created.

```

```
SQL> select * from is_eligible;
```

SID	CID
1	11
2	10
3	11
4	12

```
SQL> _
```

4. insert into exam values('&ex_id','&sid','&marks');


```

SQL> insert into exam values('&ex_id','&marks');
Enter value for ex_id: e1
Enter value for marks: 50
old 1: insert into exam values('&ex_id','&marks')
new 1: insert into exam values('e1','50')

1 row created.

SQL> /
Enter value for ex_id: e2
Enter value for marks: 100
old 1: insert into exam values('&ex_id','&marks')
new 1: insert into exam values('e2','100')

1 row created.

SQL> /
Enter value for ex_id: e3
Enter value for marks: 100
old 1: insert into exam values('&ex_id','&marks')
new 1: insert into exam values('e3','100')

1 row created.

SQL> /
Enter value for ex_id: e4
Enter value for marks: 200
old 1: insert into exam values('&ex_id','&marks')
new 1: insert into exam values('e4','200')

1 row created.

SQL> /
Enter value for ex_id: e5
Enter value for marks: 150
old 1: insert into exam values('&ex_id','&marks')
new 1: insert into exam values('e5','150')

1 row created.

SQL> _

```

```

SQL> select * from exam;

EX_ID          MARKS
-----
e1              50
e2             100
e3             100
e4             200
e5             150

SQL>

```

5. insert into questions values('&qid','&correct_opt');

```
SQL> insert into questions values('&qid','&correct_opt');
Enter value for qid: q1
Enter value for correct_opt: 2
old 1: insert into questions values('&qid','&correct_opt')
new 1: insert into questions values('q1','2')
```

1 row created.

```
SQL> /
Enter value for qid: q2
Enter value for correct_opt: 3
old 1: insert into questions values('&qid','&correct_opt')
new 1: insert into questions values('q2','3')
```

1 row created.

```
SQL> /
Enter value for qid: q3
Enter value for correct_opt: 4
old 1: insert into questions values('&qid','&correct_opt')
new 1: insert into questions values('q3','4')
```

1 row created.

```
SQL> /
Enter value for qid: q5
Enter value for correct_opt: 1
old 1: insert into questions values('&qid','&correct_opt')
new 1: insert into questions values('q5','1')
```

1 row created.

```
SQL> /
Enter value for qid: q6
Enter value for correct_opt: 2
old 1: insert into questions values('&qid','&correct_opt')
new 1: insert into questions values('q6','2')
```

1 row created.

```
SQL> /
Enter value for qid: q7
Enter value for correct_opt: 3
old 1: insert into questions values('&qid','&correct_opt')
new 1: insert into questions values('q7','3')
```

1 row created.

```
SQL> _
```

```
SQL> select * from questions;
```

QID	CORRE
q1	2
q2	3
q3	4
q5	1
q6	2
q7	3

```
6 rows selected.
```

```
SQL>
```

6. insert into isqualified values('&marks','&sid','&qualified');

```
SQL> insert into isqualified values('&marks','&sid','&qualified');
Enter value for marks: 93
Enter value for sid: 1
Enter value for qualified: yes
old 1: insert into isqualified values('&marks','&sid','&qualified')
new 1: insert into isqualified values('93','1','yes')
```

```
1 row created.
```

```
SQL> /
Enter value for marks: 74
Enter value for sid: 2
Enter value for qualified: no
old 1: insert into isqualified values('&marks','&sid','&qualified')
new 1: insert into isqualified values('74','2','no')
```

```
1 row created.
```

```
SQL> /
Enter value for marks: 97
Enter value for sid: 3
Enter value for qualified: yes
old 1: insert into isqualified values('&marks','&sid','&qualified')
new 1: insert into isqualified values('97','3','yes')
```

```
1 row created.
```

```
SQL> 92
SP2-0226: Invalid line number
SQL> /
Enter value for marks: 92
Enter value for sid: 4
Enter value for qualified: yes
old 1: insert into isqualified values('&marks','&sid','&qualified')
new 1: insert into isqualified values('92','4','yes')
```

```
1 row created.
```

```
SQL>
```

MARKS	SID	QUALIFIED
93	1	yes
74	2	no
97	3	yes
92	4	yes

SQL>

7) insert into login values('&username','&password','&qualified');

```
SQL> column username format a10
SQL> column password format a10
SQL> select * from login;
```

USERNAME	PASSWORD
admin	vivek
java	sql

IMPLEMENTATION

Front end programs and its connectivity

Java Database Connectivity (JDBC) is an application programming interface (API) for the programming language Java, which defines how a client may access a database. It is a Java-based data access technology used for Java database connectivity. It is part of the Java Standard Edition platform, from Oracle Corporation. It provides methods to query and update data in a database and is oriented towards relational databases.

The connection to the database can be performed using Java programming (JDBC API) as:

```
public void connectToDB()
{
    try {
        Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","it19737121","vasa
vi");
        statement=con.createStatement();
        statement.executeUpdate("commit");
    }
    catch (SQLException connectException)
    {
        System.out.println(connectException.getMessage());
        System.out.println(connectException.getSQLState());
        System.out.println(connectException.getErrorCode());
        System.exit(1);
    }
}
```

Thus, the connection from Java to Oracle database is performed and therefore, can be used for updating tables in the database directly.

LOGIN:

```
package prep_placement;
import java.sql.*;
import javax.swing.JOptionPane;
/**
 *
 * @author vivek
 */
public class Login extends javax.swing.JFrame {

    /**
     * Creates new form Login
     */
    public Login() {
        initComponents();
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        txtUname = new javax.swing.JTextField();
        txtPass = new javax.swing.JPasswordField();
        jButton1 = new javax.swing.JButton();
        jLabel3 = new javax.swing.JLabel();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        jLabel1.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
```

```
jLabel1.setForeground(new java.awt.Color(153, 0, 153));
jLabel1.setText("Username");

jLabel2.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
jLabel2.setForeground(new java.awt.Color(153, 0, 153));
jLabel2.setText("Password");

txtUname.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
txtUname.setForeground(new java.awt.Color(153, 0, 153));
txtUname.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txtUnameActionPerformed(evt);
    }
});

txtPass.setFont(new java.awt.Font("Times New Roman", 1, 12)); // NOI18N
txtPass.setForeground(new java.awt.Color(153, 0, 153));

jButton1.setText("Login");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

jLabel3.setFont(new java.awt.Font("Times New Roman", 1, 14)); // NOI18N
jLabel3.setText("LOGIN ");

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .add(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .add(jLabel1)
                .add(jLabel2)
                .add(txtUname)
                .add(txtPass)
                .add(jButton1)
                .add(jLabel3)
            )
            .addContainerGap(74, true)
        )
);
```

```

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
            .addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT_SIZE, 81,
Short.MAX_VALUE)
            .addComponent(jLabel2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addGap(60, 60, 60)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
            .addComponent(txtPass, javax.swing.GroupLayout.DEFAULT_SIZE, 115,
Short.MAX_VALUE)
            .addComponent(txtUname)))
        .addGroup(layout.createSequentialGroup())
            .addGap(143, 143, 143)
            .addComponent(jButton1))
        .addGroup(layout.createSequentialGroup())
            .addGap(158, 158, 158)
            .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 81,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addContainerGap(70, Short.MAX_VALUE))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup())
                .addContainerGap()
                .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 29,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(29, 29, 29)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)
                    .addComponent(txtUname, javax.swing.GroupLayout.PREFERRED_SIZE, 28,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGroup(layout.createSequentialGroup())
                        .addGap(3, 3, 3)
                        .addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))
                    .addGap(18, 18, 18)

```



```

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 29,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(txtPass, javax.swing.GroupLayout.PREFERRED_SIZE, 29,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(37, 37, 37)
        .addComponent(jButton1)
        .addContainerGap(96, Short.MAX_VALUE))
    );

```

```

    pack();
} // </editor-fold>

```

```

private void txtUnameActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

```

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try
    {
        Class.forName("oracle.jdbc.driver.OracleDriver");
        Connection con=
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","it19737122","Vivek939");
        Statement st=con.createStatement();
        String q,u,p;
        u=txtUname.getText();
        p=txtPass.getText();
        q="select * from login where username='"+u+"' and password='"+p+"'";
        ResultSet rs=st.executeQuery(q);
        if(rs.next())
        {
            MainScreen m=new MainScreen();
            m.setVisible(true);
            this.setVisible(false);
        }
    }
    else

```

```

        JOptionPane.showMessageDialog(this,"Invalid User name or Password");

    }
    catch(Exception e)
    {
        System.out.print("not connected");
    }

}

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
     * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
     */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
    } catch (IllegalAccessException ex) {

```

```
java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
```

```
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
```

```
java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
```

```
    }
```

```
//</editor-fold>
```

```
/* Create and display the form */
```

```
java.awt.EventQueue.invokeLater(new Runnable() {
```

```
    public void run() {
```

```
        new Login().setVisible(true);
```

```
    }
```

```
});
```

```
}
```

```
// Variables declaration - do not modify
```

```
private javax.swing.JButton jButton1;
```

```
private javax.swing.JLabel jLabel1;
```

```
private javax.swing.JLabel jLabel2;
```

```
private javax.swing.JLabel jLabel3;
```

```
private javax.swing.JPasswordField txtPass;
```

```
private javax.swing.JTextField txtUname;
```

```
// End of variables declaration
```

```
}
```

ADD STUDENT :

```
package prep_placement;
```

```
import java.awt.HeadlessException;
```

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

```
import javax.swing.JOptionPane;
```

```
/**
```

```
 *
```

```
 * @author vivek
```

```
 */
```

```

public class addStudent extends javax.swing.JFrame {

    /**
     * Creates new form addStudent
     */
    public addStudent() {
        initComponents();
        setDefaultCloseOperation(javax.swing.WindowConstants.HIDE_ON_CLOSE);
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        txtSid = new javax.swing.JTextField();
        jLabel2 = new javax.swing.JLabel();
        txtSname = new javax.swing.JTextField();
        jLabel3 = new javax.swing.JLabel();
        txtPhone = new javax.swing.JTextField();
        jLabel4 = new javax.swing.JLabel();

        txtEmail = new javax.swing.JTextField();
        jLabel5 = new javax.swing.JLabel();
        txtCgpa = new javax.swing.JTextField();
        jLabel6 = new javax.swing.JLabel();
        cmbBranch = new javax.swing.JComboBox<>();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        jLabel7 = new javax.swing.JLabel();
        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
    }

```

```
jLabel1.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
jLabel1.setForeground(new java.awt.Color(153, 0, 153));  
jLabel1.setText("SID");
```

```
txtSid.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
txtSid.setForeground(new java.awt.Color(153, 0, 153));
```

```
jLabel2.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
jLabel2.setForeground(new java.awt.Color(153, 0, 153));  
jLabel2.setText("SNAME");
```

```
txtSname.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
txtSname.setForeground(new java.awt.Color(153, 0, 153));
```

```
jLabel3.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
jLabel3.setForeground(new java.awt.Color(153, 0, 153));  
jLabel3.setText("PHONE");
```

```
txtPhone.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
txtPhone.setForeground(new java.awt.Color(153, 0, 153));
```

```
jLabel4.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
jLabel4.setForeground(new java.awt.Color(153, 0, 153));  
jLabel4.setText("EMAIL");
```

```
txtEmail.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
txtEmail.setForeground(new java.awt.Color(153, 0, 153));
```

```
jLabel5.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
jLabel5.setForeground(new java.awt.Color(153, 0, 153));  
jLabel5.setText("CGPA");
```

```
txtCgpa.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
txtCgpa.setForeground(new java.awt.Color(153, 0, 153));  
jLabel6.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N
```

```
jLabel6.setForeground(new java.awt.Color(153, 0, 153));  
jLabel6.setText("BRANCH");
```

```
cmbBranch.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
cmbBranch.setForeground(new java.awt.Color(153, 0, 153));  
cmbBranch.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "IT", "CSE",  
"ECE", "EEE", "Mech" }));  
cmbBranch.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        cmbBranchActionPerformed(evt);  
    }  
});
```

```
jButton1.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
jButton1.setForeground(new java.awt.Color(153, 0, 153));  
jButton1.setText("Save");  
jButton1.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton1ActionPerformed(evt);  
    }  
});
```

```
jButton2.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
jButton2.setForeground(new java.awt.Color(153, 0, 153));  
jButton2.setText("Clear");
```

```
jButton2.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton2ActionPerformed(evt);  
    }  
});
```

```
jLabel7.setText("ADD STUDENT");
```

```
javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
getContentPane().setLayout(layout);
```

```
layout.setHorizontalGroup(  
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
    .addGroup(layout.createSequentialGroup()  
        .addGap(62, 62, 62)  
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
            .addGroup(layout.createSequentialGroup()  
                .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 108,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,  
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)  
                .addComponent(txtSid, javax.swing.GroupLayout.PREFERRED_SIZE, 100,  
javax.swing.GroupLayout.PREFERRED_SIZE))  
            .addGroup(layout.createSequentialGroup()  
                .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 108,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,  
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)  
                .addComponent(txtPhone, javax.swing.GroupLayout.PREFERRED_SIZE, 100,  
javax.swing.GroupLayout.PREFERRED_SIZE))  
            .addGroup(layout.createSequentialGroup()  
                .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 108,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,  
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)  
                .addComponent(txtSname, javax.swing.GroupLayout.PREFERRED_SIZE, 100,  
javax.swing.GroupLayout.PREFERRED_SIZE))  
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,  
layout.createSequentialGroup()  
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 108,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
                .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 108,  
javax.swing.GroupLayout.PREFERRED_SIZE))  
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,  
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)  
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
```

```

        .addComponent(txtEmail, javax.swing.GroupLayout.DEFAULT_SIZE, 100,
Short.MAX_VALUE)
        .addComponent(cmbBranch, 0, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup())

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 108,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGroup(layout.createSequentialGroup()
            .addGap(47, 47, 47)
            .addComponent(jButton1)))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 27,
Short.MAX_VALUE)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jButton2)
        .addComponent(txtCgpa, javax.swing.GroupLayout.PREFERRED_SIZE, 100,
javax.swing.GroupLayout.PREFERRED_SIZE))))
        .addGap(111, 111, 111))
    .addGroup(layout.createSequentialGroup()
        .addGap(152, 152, 152)
        .addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED_SIZE, 89,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED_SIZE, 21,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel1)

```



```

        .addComponent(txtSid, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel2)
        .addComponent(txtSname, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel3)
        .addComponent(txtPhone, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(txtEmail, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel4))
        .addGap(18, 18, 18)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel6)
        .addComponent(cmbBranch, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(18, 18, 18)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel5)
        .addComponent(txtCgpa, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(36, 36, 36)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jButton1)
        .addComponent(jButton2))
        .addContainerGap(66, Short.MAX_VALUE))
    );

    pack();
} // </editor-fold>

```

```

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    txtSid.setText("");
    txtSname.setText("");
    txtPhone.setText("");
    txtEmail.setText("");

    txtCgpa.setText("");
}

```

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try
    {
        Class.forName("oracle.jdbc.driver.OracleDriver");
        Connection con=
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","it19737122","Vivek939");
        Statement st=con.createStatement();
        String q,sid,n,b,c,ph,em;
        sid=txtSid.getText();
        n=txtSname.getText();
        ph=txtPhone.getText();
        em=txtEmail.getText();
        b=cmbBranch.getSelectedItem().toString();
        c=txtCgpa.getText();
        q="insert into student values("+sid+", '"+n+"', '"+ph+"', '"+em+"', '"+b+"', '"+c+"', 0)";

        st.executeUpdate(q);
        JOptionPane.showMessageDialog(this, "Student added");
    }
    catch(HeadlessException | ClassNotFoundException | SQLException e)
    {

    }

}

```

```

private void cmbBranchActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
     * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
     */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(addStudent.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(addStudent.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(addStudent.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(addStudent.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

```

```

    }
    //</editor-fold>

    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new addStudent().setVisible(true);
        }
    });
}

```

```

// Variables declaration - do not modify
private javax.swing.JComboBox<String> cmbBranch;
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JTextField txtCgpa;
private javax.swing.JTextField txtEmail;
private javax.swing.JTextField txtPhone;
private javax.swing.JTextField txtSid;
private javax.swing.JTextField txtSname;
// End of variables declaration
}

```

MODIFY STUDENT

```

package prep_placement;
import java.awt.HeadlessException;
import java.sql.*;

import javax.swing.JOptionPane;

```

```

/**
 *
 * @author vivek
 */
public class searchStudent extends javax.swing.JFrame {

    /**
     * Creates new form searchStudent
     */
    public searchStudent() {
        initComponents();
        setDefaultCloseOperation(javax.swing.WindowConstants.HIDE_ON_CLOSE);
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jLabel2 = new javax.swing.JLabel();
        txtSname = new javax.swing.JTextField();

        cmbBranch = new javax.swing.JComboBox<>();
        jLabel3 = new javax.swing.JLabel();
        txtPhone = new javax.swing.JTextField();
        jButton2 = new javax.swing.JButton();
        jLabel4 = new javax.swing.JLabel();
        txtEmail = new javax.swing.JTextField();
        jLabel5 = new javax.swing.JLabel();
        txtCgpa = new javax.swing.JTextField();
        jLabel6 = new javax.swing.JLabel();
        jLabel1 = new javax.swing.JLabel();
    }

```

```
txtSid = new javax.swing.JTextField();
jButton3 = new javax.swing.JButton();
jButton4 = new javax.swing.JButton();
jLabel7 = new javax.swing.JLabel();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jLabel2.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N
jLabel2.setForeground(new java.awt.Color(153, 0, 153));
jLabel2.setText("SNAME");

txtSname.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N
txtSname.setForeground(new java.awt.Color(153, 0, 153));

cmbBranch.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N
cmbBranch.setForeground(new java.awt.Color(153, 0, 153));
cmbBranch.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "IT", "CSE",
"ECE", "EEE", "Mech" }));
cmbBranch.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        cmbBranchActionPerformed(evt);
    }
});

jLabel3.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N
jLabel3.setForeground(new java.awt.Color(153, 0, 153));

jLabel3.setText("PHONE");
txtPhone.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N
txtPhone.setForeground(new java.awt.Color(153, 0, 153));

jButton2.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N
jButton2.setForeground(new java.awt.Color(153, 0, 153));
jButton2.setText("Clear");
jButton2.addActionListener(new java.awt.event.ActionListener() {
```

```
        public void actionPerformed(java.awt.event.ActionEvent evt) {  
            jButton2ActionPerformed(evt);  
        }  
    }  
});
```

```
jLabel4.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
jLabel4.setForeground(new java.awt.Color(153, 0, 153));  
jLabel4.setText("EMAIL");
```

```
txtEmail.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
txtEmail.setForeground(new java.awt.Color(153, 0, 153));
```

```
jLabel5.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
jLabel5.setForeground(new java.awt.Color(153, 0, 153));  
jLabel5.setText("CGPA");
```

```
txtCgpa.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
txtCgpa.setForeground(new java.awt.Color(153, 0, 153));
```

```
jLabel6.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
jLabel6.setForeground(new java.awt.Color(153, 0, 153));  
jLabel6.setText("BRANCH");
```

```
jLabel1.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
jLabel1.setForeground(new java.awt.Color(153, 0, 153));  
jLabel1.setText("SID");
```

```
txtSid.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
txtSid.setForeground(new java.awt.Color(153, 0, 153));
```

```
jButton3.setFont(new java.awt.Font("Tahoma", 1, 11)); // NOI18N  
jButton3.setForeground(new java.awt.Color(0, 0, 153));  
jButton3.setText("Search");  
jButton3.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton3ActionPerformed(evt);  
    }  
});
```

$$\} \\ \}));$$

```
jButton4.setText("Update");
jButton4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton4ActionPerformed(evt);
    }
});
```

```
jLabel7.setText("MODIFY STUDENT");
```

```

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(62, 62, 62)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 108,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(txtPhone, javax.swing.GroupLayout.PREFERRED_SIZE, 100,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGroup(layout.createSequentialGroup()
                .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 108,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(txtSname, javax.swing.GroupLayout.PREFERRED_SIZE, 100,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

```



```

        .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 108,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 108,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
        .addComponent(txtEmail, javax.swing.GroupLayout.DEFAULT_SIZE, 100,
Short.MAX_VALUE)
        .addComponent(cmbBranch, 0, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup())

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
                .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 108,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(0, 21, Short.MAX_VALUE))
                .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
                        .addGap(0, 0, Short.MAX_VALUE)
                        .addComponent(jButton4)))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(txtCgpa, javax.swing.GroupLayout.PREFERRED_SIZE, 100,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGroup(layout.createSequentialGroup()
                .addGap(1, 1, 1)
                .addComponent(jButton2))))
        .addGroup(layout.createSequentialGroup()
                .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 108,
javax.swing.GroupLayout.PREFERRED_SIZE)

```

```

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(txtSid, javax.swing.GroupLayout.PREFERRED_SIZE, 100,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addGap(111, 111, 111))
    .addGroup(layout.createSequentialGroup())
        .addGap(138, 138, 138)
        .addComponent(jButton3)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup())
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED_SIZE, 159,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup())
            .addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED_SIZE, 16,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel1)
                .addComponent(txtSid, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(18, 18, 18)
            .addComponent(jButton3)
            .addGap(26, 26, 26)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel2)
                .addComponent(txtSname, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel3)
                .addComponent(txtPhone, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

```

```

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(txtEmail, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jLabel4))
        .addGap(18, 18, 18)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel6)
            .addComponent(cmbBranch, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(18, 18, 18)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel5)
            .addComponent(txtCgpa, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(47, 47, 47)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jButton2)
            .addComponent(jButton4))
        .addContainerGap(69, Short.MAX_VALUE))
    );

```

```

    pack();
} // </editor-fold>

```

```

private void cmbBranchActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

```

```

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    txtSid.setText("");
    txtSname.setText("");
    txtPhone.setText("");
    txtEmail.setText("");
    txtCgpa.setText("");
}

```

```

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try
    {
        Class.forName("oracle.jdbc.driver.OracleDriver");
        Connection con=
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","it19737122","Vivek939");
        Statement st=con.createStatement();
        String q,sid,n,b,c,ph,em;
        sid=txtSid.getText();
        q="select * from student where sid="+sid;
        ResultSet rs=st.executeQuery(q);
        if(rs.next())
        {
            n=rs.getString("sname");
            ph=rs.getString("phone");
            em=rs.getString("email");
            b=rs.getString("branch");
            c=rs.getString("cgpa");
            txtSname.setText(n);
            txtPhone.setText(ph);
            txtEmail.setText(em);
            cmbBranch.setSelectedItem(b);
            txtCgpa.setText(c);
        }
        else
            JOptionPane.showMessageDialog(this, "No student found with given sid");

    }

    catch (Exception e) {
        System.out.print("not conn");
    }
}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

```

```

// TODO add your handling code here:
try
{
    Class.forName("oracle.jdbc.driver.OracleDriver");
    Connection con=
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","it19737122","Vivek939");
    Statement st=con.createStatement();
    String q,sid,n,b,c,ph,em;
    sid=txtSid.getText();
    n=txtSname.getText();
    ph=txtPhone.getText();
    em=txtEmail.getText();
    b=cmbBranch.getSelectedItem().toString();
    c=txtCgpa.getText();
    q="update student set
sname='"+n+"',phone='"+ph+"',email='"+em+"',branch='"+b+"',cgpa='"+c+"' where sid='"+sid;
    st.executeUpdate(q);
    JOptionPane.showMessageDialog(this, "Student Modified");
}
catch(HeadlessException | ClassNotFoundException | SQLException e)
{

}

}

/**
 * @param args the command line arguments
 */

public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
    * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
    */
    try {

```

```

        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(searchStudent.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(searchStudent.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(searchStudent.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(searchStudent.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    }
}
//</editor-fold>

```

```

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new searchStudent().setVisible(true);
    }
});
}

```

```

// Variables declaration - do not modify
private javax.swing.JComboBox<String> cmbBranch;
private javax.swing.JButton jButton2;

```

```

private javax.swing.JButton jButton3;
private javax.swing.JButton jButton4;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JTextField txtCgpa;
private javax.swing.JTextField txtEmail;
private javax.swing.JTextField txtPhone;
private javax.swing.JTextField txtSid;
private javax.swing.JTextField txtSname;
// End of variables declaration
}

```

DELETE STUDENT:

```

package prep_placement;
import java.awt.HeadlessException;
import java.sql.*;
import javax.swing.JOptionPane;
/**
 *
 * @author vivek
 */
public class deleteStudent extends javax.swing.JFrame {

    /**
     * Creates new form deleteStudent
     */
    public deleteStudent() {
        initComponents();
        setDefaultCloseOperation(javax.swing.WindowConstants.HIDE_ON_CLOSE);
    }
    /**

```

```
* This method is called from within the constructor to initialize the form.  
* WARNING: Do NOT modify this code. The content of this method is always  
* regenerated by the Form Editor.  
*/
```

```
@SuppressWarnings("unchecked")
```

```
// <editor-fold defaultstate="collapsed" desc="Generated Code">
```

```
private void initComponents() {
```

```
    jButton2 = new javax.swing.JButton();
```

```
    jLabel4 = new javax.swing.JLabel();
```

```
    txtEmail = new javax.swing.JTextField();
```

```
    jLabel5 = new javax.swing.JLabel();
```

```
    txtCgpa = new javax.swing.JTextField();
```

```
    jLabel2 = new javax.swing.JLabel();
```

```
    jLabel6 = new javax.swing.JLabel();
```

```
    txtSname = new javax.swing.JTextField();
```

```
    jLabel1 = new javax.swing.JLabel();
```

```
    cmbBranch = new javax.swing.JComboBox<>();
```

```
    txtSid = new javax.swing.JTextField();
```

```
    jLabel3 = new javax.swing.JLabel();
```

```
    jButton3 = new javax.swing.JButton();
```

```
    txtPhone = new javax.swing.JTextField();
```

```
    jButton1 = new javax.swing.JButton();
```

```
    jLabel7 = new javax.swing.JLabel();
```

```
    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
```

```
    jButton2.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N
```

```
    jButton2.setForeground(new java.awt.Color(153, 0, 153));
```

```
    jButton2.setText("Clear");
```

```
    jButton2.addActionListener(new java.awt.event.ActionListener() {
```

```
        public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```
            jButton2ActionPerformed(evt);
```

```
        }
```

```
    });
```

```
    jLabel4.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N
```



```
jLabel4.setForeground(new java.awt.Color(153, 0, 153));  
jLabel4.setText("EMAIL");
```

```
txtEmail.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
txtEmail.setForeground(new java.awt.Color(153, 0, 153));
```

```
jLabel5.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
jLabel5.setForeground(new java.awt.Color(153, 0, 153));  
jLabel5.setText("CGPA");
```

```
txtCgpa.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
txtCgpa.setForeground(new java.awt.Color(153, 0, 153));
```

```
jLabel2.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
jLabel2.setForeground(new java.awt.Color(153, 0, 153));  
jLabel2.setText("SNAME");
```

```
jLabel6.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
jLabel6.setForeground(new java.awt.Color(153, 0, 153));  
jLabel6.setText("BRANCH");
```

```
txtSname.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
txtSname.setForeground(new java.awt.Color(153, 0, 153));
```

```
jLabel1.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
jLabel1.setForeground(new java.awt.Color(153, 0, 153));  
jLabel1.setText("SID");
```

```
cmbBranch.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
cmbBranch.setForeground(new java.awt.Color(153, 0, 153));  
cmbBranch.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "IT", "CSE",  
"ECE", "EEE", "Mech" }));  
cmbBranch.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        cmbBranchActionPerformed(evt);  
    }  
})
```

```
});
```

```
txtSid.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
txtSid.setForeground(new java.awt.Color(153, 0, 153));
```

```
jLabel3.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
jLabel3.setForeground(new java.awt.Color(153, 0, 153));  
jLabel3.setText("PHONE");
```

```
jButton3.setFont(new java.awt.Font("Tahoma", 1, 11)); // NOI18N  
jButton3.setForeground(new java.awt.Color(0, 0, 153));  
jButton3.setText("Search");  
jButton3.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton3ActionPerformed(evt);  
    }  
});
```

```
txtPhone.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  
txtPhone.setForeground(new java.awt.Color(153, 0, 153));
```

```
jButton1.setText("Delete");  
jButton1.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton1ActionPerformed(evt);  
    }  
});
```

```
jLabel7.setText("DELETE STUDENT");
```

```
javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
getContentPane().setLayout(layout);  
layout.setHorizontalGroup(  
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(layout.createSequentialGroup()  
            .addContainerGap()  
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                .addComponent(jLabel7, javax.swing.GroupLayout.DEFAULT_SIZE, 150, true)  
                .addComponent(txtSid, javax.swing.GroupLayout.DEFAULT_SIZE, 150, true)  
                .addComponent(txtPhone, javax.swing.GroupLayout.DEFAULT_SIZE, 150, true)  
                .addComponent(jButton3, javax.swing.GroupLayout.DEFAULT_SIZE, 100, true)  
                .addComponent(jButton1, javax.swing.GroupLayout.DEFAULT_SIZE, 100, true)  
            )  
            .addContainerGap(150, true)  
        )  
);
```

```
.addGap(62, 62, 62)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 108,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(txtPhone, javax.swing.GroupLayout.PREFERRED_SIZE, 100,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGroup(layout.createSequentialGroup()
        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 108,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(txtSname, javax.swing.GroupLayout.PREFERRED_SIZE, 100,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 108,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 108,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
    .addComponent(txtEmail, javax.swing.GroupLayout.DEFAULT_SIZE, 100,
Short.MAX_VALUE)
    .addComponent(cmbBranch, 0, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)))
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
    .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 108,
```

```

javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jButton1))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED, 19,
Short.MAX_VALUE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jButton2)
        .addComponent(txtCgpa, javax.swing.GroupLayout.PREFERRED_SIZE, 100,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addGroup(layout.createSequentialGroup()
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 108,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(txtSid, javax.swing.GroupLayout.PREFERRED_SIZE, 100,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addGap(111, 111, 111))
.addGroup(layout.createSequentialGroup()
        .addGap(138, 138, 138)
        .addComponent(jButton3)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED_SIZE, 116,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
);
layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
        .addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED_SIZE, 21,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel1)
        .addComponent(txtSid, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))

```

```

        .addGap(18, 18, 18)
        .addComponent(jButton3)
        .addGap(26, 26, 26)
        .addGroup(layout.createParallelGroup(GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel2)
            .addComponent(txtSname, GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(GroupLayoutStyle.ComponentPlacement.UNRELATED)
        .addGroup(layout.createParallelGroup(GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel3)
            .addComponent(txtPhone, GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(GroupLayoutStyle.ComponentPlacement.UNRELATED)
        .addGroup(layout.createParallelGroup(GroupLayout.Alignment.BASELINE)
            .addComponent(txtEmail, GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, GroupLayout.PREFERRED_SIZE)
            .addComponent(jLabel4))
        .addGap(18, 18, 18)
        .addGroup(layout.createParallelGroup(GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel6)
            .addComponent(cmbBranch, GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, GroupLayout.PREFERRED_SIZE))
        .addGap(18, 18, 18)
        .addGroup(layout.createParallelGroup(GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel5)
            .addComponent(txtCgpa, GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(GroupLayoutStyle.ComponentPlacement.RELATED, 38,
Short.MAX_VALUE)
        .addGroup(layout.createParallelGroup(GroupLayout.Alignment.BASELINE)
            .addComponent(jButton2)
            .addComponent(jButton1))
        .addGap(20, 20, 20)
    );

    pack();
} // </editor-fold>

```

```
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    txtSid.setText("");  
    txtSname.setText("");  
    txtPhone.setText("");  
    txtEmail.setText("");  
    txtCgpa.setText("");  
}
```

```
private void cmbBranchActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
}
```

```
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    try  
    {  
        Class.forName("oracle.jdbc.driver.OracleDriver");  
        Connection con=  
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","it19737122","Vivek939");  
        Statement st=con.createStatement();  
        String q,sid,n,b,c,ph,em;  
        sid=txtSid.getText();  
        q="select * from student where sid="+sid;  
        ResultSet rs=st.executeQuery(q);  
        if(rs.next())  
        {  
            n=rs.getString("sname");  
  
            ph=rs.getString("phone");  
            em=rs.getString("email");  
            b=rs.getString("branch");  
            c=rs.getString("cgpa");  
            txtSname.setText(n);  
            txtPhone.setText(ph);
```

```

        txtEmail.setText(em);
        cmbBranch.setSelectedItem(b);
        txtCgpa.setText(c);
    }
    else
        JOptionPane.showMessageDialog(this, "No student found with given sid");
}

catch (Exception e) {
    System.out.print("not conn");
}
}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try
    {
        Class.forName("oracle.jdbc.driver.OracleDriver");
        Connection con=
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","it19737122","Vivek939");
        Statement st=con.createStatement();
        String q,sid;
        sid=txtSid.getText();
        q="delete from student where sid="+sid;
        st.executeUpdate(q);
        JOptionPane.showMessageDialog(this, "Student Deleted");
    }
    catch(HeadlessException | ClassNotFoundException | SQLException e)
    {
        System.out.print("not connected");

    }
}

/**
 * @param args the command line arguments
 */

```

```

public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
    * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
    */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(deleteStudent.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(deleteStudent.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(deleteStudent.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(deleteStudent.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

    }
    //</editor-fold>

    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new deleteStudent().setVisible(true);

```



```

    }
    });
}

// Variables declaration - do not modify
private javax.swing.JComboBox<String> cmbBranch;
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JTextField txtCgpa;
private javax.swing.JTextField txtEmail;
private javax.swing.JTextField txtPhone;
private javax.swing.JTextField txtSid;
private javax.swing.JTextField txtSname;
// End of variables declaration
}

```

SHOW STUDENT:

```

package prep_placement;
import java.sql.*;
import javax.swing.table.DefaultTableModel;
/**
 *
 * @author vivek
 */
public class showStudent extends javax.swing.JFrame {

    /**

```

```

* Creates new form showStudent
*/
public showStudent() {
    initComponents();
    setDefaultCloseOperation(javax.swing.WindowConstants.HIDE_ON_CLOSE);
}

/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jScrollPane1 = new javax.swing.JScrollPane();
    jTable1 = new javax.swing.JTable();
    jButton1 = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jTable1.setModel(new javax.swing.table.DefaultTableModel(
        new Object [][] {

        },
        new String [] {
            "Sid", "Sname", "Phone", "Email", "Branch", "Cgpa", "Marks"
        }
    ));
    jScrollPane1.setViewportView(jTable1);

    jButton1.setText("Show");
    jButton1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(evt);

```

```

    }
});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .add(layout.createParallelGroup()
                .add(layout.createSequentialGroup()
                    .addContainerGap()
                    .addComponent(jScrollPane1, javax.swing.GroupLayout.DEFAULT_SIZE, 508,
Short.MAX_VALUE)
                    .addContainerGap())
                .add(layout.createSequentialGroup()
                    .addGap(192, 192, 192)
                    .addComponent(jButton1)
                    .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))
            .addContainerGap())
        .addGroup(layout.createSequentialGroup()
            .add(layout.createParallelGroup()
                .add(layout.createSequentialGroup()
                    .addContainerGap()
                    .addComponent(jButton1)
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 29,
Short.MAX_VALUE)
                    .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 322,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addContainerGap())
                .add(layout.createSequentialGroup()
                    .addContainerGap()
                    .addComponent(jButton1)
                    .addContainerGap()))
            .addContainerGap())
);

pack();
} // </editor-fold>

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:
    try
    {

```

```

        Class.forName("oracle.jdbc.driver.OracleDriver");
        Connection con=
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","it19737122","Vivek939");
        Statement st=con.createStatement();
        String q,sid,n,b,c,ph,em,m;
        q="select * from student";
        ResultSet rs=st.executeQuery(q);
        DefaultTableModel df=(DefaultTableModel)jTable1.getModel();
        df.setRowCount(0);
        while(rs.next())
        {
            sid=rs.getString("sid");
            n=rs.getString("sname");
            ph=rs.getString("phone");
            em=rs.getString("email");
            b=rs.getString("branch");
            c=rs.getString("cgpa");
            m=rs.getString("exam_marks");
            String data[]={sid,n,ph,em,b,c,m};
            df.addRow(data);
        }
    }
    catch(Exception e)
    {
        System.out.print("not connected");
    }
}

```

```
/**
```

```
 * @param args the command line arguments
```

```
 */
```

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

```
    /* Set the Nimbus look and feel */
```

```
//<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
```

```
/* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
```

```

        * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
        */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
            javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(showStudent.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(showStudent.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(showStudent.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(showStudent.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    }
}
//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new showStudent().setVisible(true);
    }
});
}

```

```

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable jTable1;
// End of variables declaration
}

```

COMPANY:

Similarly for addCompany, modifyCompany, deleteCompany and showCompany.

QUESTIONS:

```

package prep_placement;
import java.sql.*;
import javax.swing.JOptionPane;
/**
 *
 * @author vivek
 */
public class addQuestion extends javax.swing.JFrame {

    /**
     * Creates new form addQuestion
     */
    public addQuestion() {
        initComponents();
        setDefaultCloseOperation(javax.swing.WindowConstants.HIDE_ON_CLOSE);
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

```

```
jLabel1 = new javax.swing.JLabel();
txtQuest = new javax.swing.JTextField();
jLabel2 = new javax.swing.JLabel();
txtOpt1 = new javax.swing.JTextField();
jLabel3 = new javax.swing.JLabel();
txtOpt2 = new javax.swing.JTextField();
jLabel4 = new javax.swing.JLabel();
txtOpt3 = new javax.swing.JTextField();
jLabel5 = new javax.swing.JLabel();
txtOpt4 = new javax.swing.JTextField();
jLabel6 = new javax.swing.JLabel();
r1 = new javax.swing.JRadioButton();
r2 = new javax.swing.JRadioButton();
r3 = new javax.swing.JRadioButton();
r4 = new javax.swing.JRadioButton();
jButton1 = new javax.swing.JButton();
jButton2 = new javax.swing.JButton();
jLabel7 = new javax.swing.JLabel();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jLabel1.setText("Question");

jLabel2.setText("Option 1");

jLabel3.setText("Option 2");

jLabel4.setText("Option 3");

jLabel5.setText("Option 4");

jLabel6.setText("Correct Answer");

r1.setText("Option 1");

r2.setText("Option 2");
```

```
r3.setText("Option 3");
```

```
r4.setText("Option 4");
```

```
jButton1.setText("Save");
```

```
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});
```

```
jButton2.setText("Clear");
```

```
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});
```

```
jLabel7.setText("ADD QUESTION");
```

```
javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
getContentPane().setLayout(layout);  
layout.setHorizontalGroup(  
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()  
            .addGap(43, 43, Short.MAX_VALUE)  
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,  
false)  
                .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 87,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
                .addComponent(txtQuest, javax.swing.GroupLayout.PREFERRED_SIZE, 568,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
                .addGroup(layout.createSequentialGroup()  
  
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)  
                    .addComponent(jLabel6, javax.swing.GroupLayout.Alignment.LEADING)
```



```
.addComponent(jLabel5, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.PREFERRED_SIZE, 75, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel4, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.PREFERRED_SIZE, 75, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel3, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.PREFERRED_SIZE, 75, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel2, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.PREFERRED_SIZE, 75, javax.swing.GroupLayout.PREFERRED_SIZE))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGap(17, 17, 17)
        .addComponent(txtOpt1, javax.swing.GroupLayout.PREFERRED_SIZE, 298,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGroup(layout.createSequentialGroup()
        .addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(txtOpt3, javax.swing.GroupLayout.PREFERRED_SIZE, 298,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(txtOpt2, javax.swing.GroupLayout.PREFERRED_SIZE, 298,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(txtOpt4, javax.swing.GroupLayout.PREFERRED_SIZE, 298,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGroup(layout.createSequentialGroup()
        .addComponent(r1, javax.swing.GroupLayout.PREFERRED_SIZE, 75,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(r2, javax.swing.GroupLayout.PREFERRED_SIZE, 75,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(r3, javax.swing.GroupLayout.PREFERRED_SIZE, 77,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(r4, javax.swing.GroupLayout.PREFERRED_SIZE, 92,
javax.swing.GroupLayout.PREFERRED_SIZE))))
    .addGap(2, 2, Short.MAX_VALUE))
```

```

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jButton1)
    .addComponent(jButton2))
    .addGap(47, 47, 47)))
    .addContainerGap()
.addGroup(layout.createSequentialGroup()
    .addGap(214, 214, 214)
    .addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED_SIZE, 123,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
        .addContainerGap()
        .addComponent(jLabel7, javax.swing.GroupLayout.DEFAULT_SIZE, 30,
Short.MAX_VALUE)
        .addGap(18, 18, 18)
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 22,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(txtQuest, javax.swing.GroupLayout.PREFERRED_SIZE, 33,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(28, 28, 28)

            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 24,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(txtOpt1, javax.swing.GroupLayout.PREFERRED_SIZE, 24,
javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addGroup(layout.createSequentialGroup()
                .addGap(85, 85, 85)
                .addComponent(jButton1)))
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

```

```

        .addGroup(layout.createSequentialGroup())
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 23,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(txtOpt2, javax.swing.GroupLayout.PREFERRED_SIZE, 23,
                javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(18, 18, 18)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 22,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(txtOpt3, javax.swing.GroupLayout.PREFERRED_SIZE, 22,
                javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addGroup(layout.createSequentialGroup()
                .addGap(27, 27, 27)
                .addComponent(jButton2)))
            .addGap(18, 18, 18)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 24,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(txtOpt4, javax.swing.GroupLayout.PREFERRED_SIZE, 24,
                    javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(27, 27, 27)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 23,
                        javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(r1)
                    .addComponent(r2)
                    .addComponent(r3)
                    .addComponent(r4))
                    .addGap(53, 53, 53))
            );

        pack();
} // </editor-fold>

```

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try
    {
        Class.forName("oracle.jdbc.driver.OracleDriver");
        Connection con=
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","it19737122","Vivek939");
        Statement st=con.createStatement();
        String q,qst,o1,o2,o3,o4,ca;
        int qid=0;
        qst=txtQuest.getText();
        o1=txtOpt1.getText();
        o2=txtOpt2.getText();
        o3=txtOpt3.getText();
        o4=txtOpt4.getText();
        q="select count(*) as num from questions";
        ResultSet rs=st.executeQuery(q);
        if(rs.next())
        {
            qid=rs.getInt("num");
            qid+=1;
        }
        if(r1.isSelected())
            ca=o1;
        else if(r2.isSelected())
            ca=o2;
        else if(r3.isSelected())
            ca=o3;
        else
            ca=o4;
        q="insert into questions values("+qid+"','"+qst+"','"+o1+"','"+o2+"','"+ o3+"','"+o4+"','"+ca+"')";
        st.executeUpdate(q);
        JOptionPane.showMessageDialog(this, "Question added");
    }
    catch(Exception e)

```

```

    {
        System.out.print("excepetion");
    }

}

```

```

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    txtQuest.setText("");
    txtOpt1.setText("");
    txtOpt2.setText("");
    txtOpt3.setText("");
    txtOpt4.setText("");
}

```

```

/**

```

```

 * @param args the command line arguments
 */

```

```

public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
     * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
     */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

```

```

java.util.logging.Logger.getLogger(addQuestion.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

```

```

        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(addQuestion.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(addQuestion.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(addQuestion.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    }
}
//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new addQuestion().setVisible(true);
    }
});
}

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JRadioButton r1;
private javax.swing.JRadioButton r2;
private javax.swing.JRadioButton r3;
private javax.swing.JRadioButton r4;

```

```

private javax.swing.JTextField txtOpt1;
private javax.swing.JTextField txtOpt2;
private javax.swing.JTextField txtOpt3;
private javax.swing.JTextField txtOpt4;
private javax.swing.JTextField txtQuest;
// End of variables declaration
}

```

CONDUCT EXAM:

```

package prep_placement;
import java.sql.*;
import javax.swing.JOptionPane;
/**
 *
 * @author vivek
 */
public class conductExam extends javax.swing.JFrame {
    ResultSet rs;
    String cans;
    double score=0;

    /**
     * Creates new form conductExam
     */
    public conductExam() {
        initComponents();
        setDefaultCloseOperation(javax.swing.WindowConstants.HIDE_ON_CLOSE);
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">

```

```
private void initComponents() {

    buttonGroup1 = new javax.swing.ButtonGroup();
    lblQuest = new javax.swing.JLabel();
    r1 = new javax.swing.JRadioButton();
    r2 = new javax.swing.JRadioButton();
    r3 = new javax.swing.JRadioButton();
    r4 = new javax.swing.JRadioButton();
    jButton1 = new javax.swing.JButton();
    btnStart = new javax.swing.JButton();
    jLabel1 = new javax.swing.JLabel();
    txtSid = new javax.swing.JTextField();
    jLabel2 = new javax.swing.JLabel();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    buttonGroup1.add(r1);

    buttonGroup1.add(r2);

    buttonGroup1.add(r3);

    buttonGroup1.add(r4);
    r4.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            r4ActionPerformed(evt);
        }
    });

    jButton1.setText("Next");
    jButton1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(evt);
        }
    });
    btnStart.setText("Start");
```



```

btnStart.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnStartActionPerformed(evt);
    }
});

jLabel1.setText("SID");

jLabel2.setText("EXAM    - (each qn carries 1 mark and deducts 0.25 for wrong ans)");

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(43, 43, 43)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addGap(17, 17, 17)
                    .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 60,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(45, 45, 45)
                    .addComponent(txtSid, javax.swing.GroupLayout.PREFERRED_SIZE, 124,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(btnStart, javax.swing.GroupLayout.PREFERRED_SIZE, 82,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(123, 123, 123))
                .addGroup(layout.createSequentialGroup()
                    .addGap(123, 123, 123)
                    .addComponent(btnStartActionPerformed, javax.swing.GroupLayout.PREFERRED_SIZE, 124,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(123, 123, 123))
            )
        )
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
            .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 432,
javax.swing.GroupLayout.PREFERRED_SIZE)
        )
    )
    .addContainerGap(123, true)
);

```

```

        .addComponent(lblQuest, javax.swing.GroupLayout.PREFERRED_SIZE, 529,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGroup(layout.createSequentialGroup()
            .addGap(9, 9, 9)

            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addComponent(r2, javax.swing.GroupLayout.PREFERRED_SIZE, 178,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(55, 55, 55)
                    .addComponent(r3, javax.swing.GroupLayout.PREFERRED_SIZE, 178,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGroup(layout.createSequentialGroup()
                    .addComponent(r1, javax.swing.GroupLayout.PREFERRED_SIZE, 178,
javax.swing.GroupLayout.PREFERRED_SIZE)

                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addComponent(r4, javax.swing.GroupLayout.PREFERRED_SIZE, 178,
javax.swing.GroupLayout.PREFERRED_SIZE))))
                .addGroup(layout.createSequentialGroup()
                    .addGap(161, 161, 161)
                    .addComponent(jButton1))))
            .addGap(36, 36, 36)))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 34,
Short.MAX_VALUE)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(btnStart)
                    .addComponent(jLabel1)
                    .addComponent(txtSid, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            );

```

```

        .addGap(18, 18, 18)
        .addComponent(lblQuest, javax.swing.GroupLayout.PREFERRED_SIZE, 24,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup())
            .addGap(33, 33, 33)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
            .addGroup(layout.createSequentialGroup())
                .addComponent(r1, javax.swing.GroupLayout.PREFERRED_SIZE, 32,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(49, 49, 49)
                .addComponent(r2, javax.swing.GroupLayout.PREFERRED_SIZE, 32,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addComponent(r3, javax.swing.GroupLayout.PREFERRED_SIZE, 32,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addGroup(layout.createSequentialGroup())
            .addGap(18, 18, 18)
            .addComponent(r4, javax.swing.GroupLayout.PREFERRED_SIZE, 32,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(41, 41, 41)
        .addComponent(jButton1)
        .addGap(22, 22, 22)
    );

```

```

    pack();
} // </editor-fold>

```

```

private void r4ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

```

```

private void btnStartActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try
    {
        Class.forName("oracle.jdbc.driver.OracleDriver");
    }
}

```

```

        Connection con=
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","it19737122","Vivek939");
        Statement st=con.createStatement();
        String q1="select * from student where sid="+ txtSid.getText() + " and exam_marks=0";
        ResultSet rs1=st.executeQuery(q1);
        if(rs1.next())
        {
            String q;
            q="select * from questions";
            rs=st.executeQuery(q);
            showq();
            jButton1.setEnabled(true);
            btnStart.setEnabled(false);
        }
        else
            JOptionPane.showMessageDialog(this, "Invalid Student id or test already conducted");
    }
    catch(Exception e)
    {
        System.out.println(e.toString());
    }
}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try
    {
        score++;
        if(r1.isSelected() && r1.getText().equals(cans))
            JOptionPane.showMessageDialog(this, "Correct Answer");
        else if(r2.isSelected() && r2.getText().equals(cans))
            JOptionPane.showMessageDialog(this, "Correct Answer");
        else if(r3.isSelected() && r3.getText().equals(cans))
            JOptionPane.showMessageDialog(this, "Correct Answer");
        else if(r4.isSelected() && r4.getText().equals(cans))
            JOptionPane.showMessageDialog(this, "Correct Answer");
    }
}

```

```

        else

        {
            JOptionPane.showMessageDialog(this, "Wrong Answer");
            score-=1.25;
        }
        showq();
    }
    catch(Exception e)
    {

    }

}

private void showq() throws SQLException
{
    if(rs.next())
    {
        String quest,o1,o2,o3,o4;
        quest=rs.getString("question");
        o1=rs.getString("option1");
        o2=rs.getString("option2");
        o3=rs.getString("option3");
        o4=rs.getString("option4");
        cans=rs.getString("correct_ans");
        lblQuest.setText(quest);
        r1.setText(o1);
        r2.setText(o2);
        r3.setText(o3);
        r4.setText(o4);
    }
    else
    {
        JOptionPane.showMessageDialog(this,"Test Complete, Your score is "+score);
        jButton1.setEnabled(false);
        try

```

```

    {
        Class.forName("oracle.jdbc.driver.OracleDriver");
        Connection con=
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","it19737122","Vivek939");
        Statement st=con.createStatement();
        String q,sid;
        sid=txtSid.getText();
        q="update student set exam_marks="+ score+" where sid="+sid;
        st.executeUpdate(q);
        btnStart.setEnabled(true);
    }
    catch(Exception e)
    {

    }
}
}

```

```

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
     * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
     */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    }
    catch (ClassNotFoundException ex) {

```

```
java.util.logging.Logger.getLogger(conductExam.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
```

```
    } catch (InstantiationException ex) {
```

```
java.util.logging.Logger.getLogger(conductExam.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
```

```
    } catch (IllegalAccessException ex) {
```

```
java.util.logging.Logger.getLogger(conductExam.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
```

```
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
```

```
java.util.logging.Logger.getLogger(conductExam.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
```

```
    }
```

```
//</editor-fold>
```

```
/* Create and display the form */
```

```
java.awt.EventQueue.invokeLater(new Runnable() {
```

```
    public void run() {
```

```
        new conductExam().setVisible(true);
```

```
    }
```

```
});
```

```
}
```

```
// Variables declaration - do not modify
```

```
private javax.swing.JButton btnStart;
```

```
private javax.swing.ButtonGroup buttonGroup1;
```

```
private javax.swing.JButton jButton1;
```

```
private javax.swing.JLabel jLabel1;
```

```
private javax.swing.JLabel jLabel2;
```

```
private javax.swing.JLabel lblQuest;
```

```
private javax.swing.JRadioButton r1;
```

```
private javax.swing.JRadioButton r2;
```

```
private javax.swing.JRadioButton r3;
```

```
private javax.swing.JRadioButton r4;
```

```
private javax.swing.JTextField txtSid;  
// End of variables declaration
```


MAIN PROGRAM:

```
package prep_placement;

/**
 *
 * @author vivek
 */
public class MainScreen extends javax.swing.JFrame {

    /**
     * Creates new form MainScreen
     */
    public MainScreen() {
        initComponents();
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jMenuBar1 = new javax.swing.JMenuBar();
        jMenu1 = new javax.swing.JMenu();
        jMenuItem1 = new javax.swing.JMenuItem();
        jMenuItem2 = new javax.swing.JMenuItem();
        jMenuItem3 = new javax.swing.JMenuItem();
        jMenuItem7 = new javax.swing.JMenuItem();
        jMenu2 = new javax.swing.JMenu();
        jMenuItem4 = new javax.swing.JMenuItem();
        jMenuItem5 = new javax.swing.JMenuItem();
        jMenuItem6 = new javax.swing.JMenuItem();
        jMenuItem8 = new javax.swing.JMenuItem();
        jMenu5 = new javax.swing.JMenu();
        jMenuItem10 = new javax.swing.JMenuItem();
        jMenu3 = new javax.swing.JMenu();
        jMenuItem9 = new javax.swing.JMenuItem();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        jMenu1.setText("Student");
```

```
jMenuItem1.setText("Add Student");
jMenuItem1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jMenuItem1ActionPerformed(evt);
    }
});
jMenu1.add(jMenuItem1);
```

```
jMenuItem2.setText("Modify Student");
jMenuItem2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jMenuItem2ActionPerformed(evt);
    }
});
jMenu1.add(jMenuItem2);
```

```
jMenuItem3.setText("Delete Student");
jMenuItem3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jMenuItem3ActionPerformed(evt);
    }
});
jMenu1.add(jMenuItem3);
```

```
jMenuItem7.setText("Show All Student");
jMenuItem7.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jMenuItem7ActionPerformed(evt);
    }
});
jMenu1.add(jMenuItem7);
```

```
jMenuBar1.add(jMenu1);
```

```
jMenu2.setText("Company");
```

```
jMenuItem4.setText("Add Company");
jMenuItem4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jMenuItem4ActionPerformed(evt);
    }
});
jMenu2.add(jMenuItem4);
```

```
jMenuItem5.setText("Modify Company");
```

```
jMenuItem5.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jMenuItem5ActionPerformed(evt);  
    }  
});  
jMenu2.add(jMenuItem5);
```

```
jMenuItem6.setText("Delete Company");  
jMenuItem6.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jMenuItem6ActionPerformed(evt);  
    }  
});  
jMenu2.add(jMenuItem6);
```

```
jMenuItem8.setText("Show Company");  
jMenuItem8.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jMenuItem8ActionPerformed(evt);  
    }  
});  
jMenu2.add(jMenuItem8);
```

```
jMenuBar1.add(jMenu2);
```

```
jMenu5.setText("Admin");
```

```
jMenuItem10.setText("Add Questions");  
jMenuItem10.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jMenuItem10ActionPerformed(evt);  
    }  
});  
jMenu5.add(jMenuItem10);
```

```
jMenuBar1.add(jMenu5);
```

```
jMenu3.setText("Test");
```

```
jMenuItem9.setText("Conduct Test");  
jMenuItem9.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jMenuItem9ActionPerformed(evt);  
    }  
});  
jMenu3.add(jMenuItem9);
```

```

jMenuBar1.add(jMenu3);

setJMenuBar(jMenuBar1);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(0, 453, Short.MAX_VALUE)
            .addContainerGap())
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(0, 278, Short.MAX_VALUE)
            .addContainerGap())
);

pack();
} // </editor-fold>

private void jMenuItem4ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    addCompany a = new addCompany();
    a.setVisible(true);
}

private void jMenuItem1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    addStudent s = new addStudent();
    s.setVisible(true);
}

private void jMenuItem2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    searchStudent s = new searchStudent();
    s.setVisible(true);
}

private void jMenuItem3ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    deleteStudent s = new deleteStudent();
    s.setVisible(true);
}

private void jMenuItem7ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    showStudent s = new showStudent();
}

```

```

        s.setVisible(true);
    }

    private void jMenuItem5ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        modifyCompany c=new modifyCompany();
        c.setVisible(true);
    }

    private void jMenuItem6ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        deleteCompany c=new deleteCompany();
        c.setVisible(true);
    }

    private void jMenuItem8ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        showCompany c=new showCompany();
        c.setVisible(true);
    }

    private void jMenuItem10ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        addQuestion q=new addQuestion();
        q.setVisible(true);
    }

    private void jMenuItem9ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        conductExam q=new conductExam();
        q.setVisible(true);
    }

    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
        /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
         * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
         */
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
                javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());

```

```

        break;
    }
}
} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(MainScreen.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(MainScreen.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(MainScreen.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(MainScreen.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
    }
}
//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new MainScreen().setVisible(true);
    }
});
}

// Variables declaration - do not modify
private javax.swing.JMenu jMenu1;
private javax.swing.JMenu jMenu2;
private javax.swing.JMenu jMenu3;
private javax.swing.JMenu jMenu5;
private javax.swing.JMenuBar jMenuBar1;
private javax.swing.JMenuItem jMenuItem1;
private javax.swing.JMenuItem jMenuItem10;
private javax.swing.JMenuItem jMenuItem2;
private javax.swing.JMenuItem jMenuItem3;
private javax.swing.JMenuItem jMenuItem4;
private javax.swing.JMenuItem jMenuItem5;
private javax.swing.JMenuItem jMenuItem6;
private javax.swing.JMenuItem jMenuItem7;
private javax.swing.JMenuItem jMenuItem8;
private javax.swing.JMenuItem jMenuItem9;
// End of variables declaration

```

}

Github links and folder structure:


























Link:

Folder structure:

This PC > Documents > NetBeansProjects > prep_placement > src >				
	Name	Date modified	Type	Size
s	prep_placement	19-06-2021 00:00	File folder	
s				
s				
s				

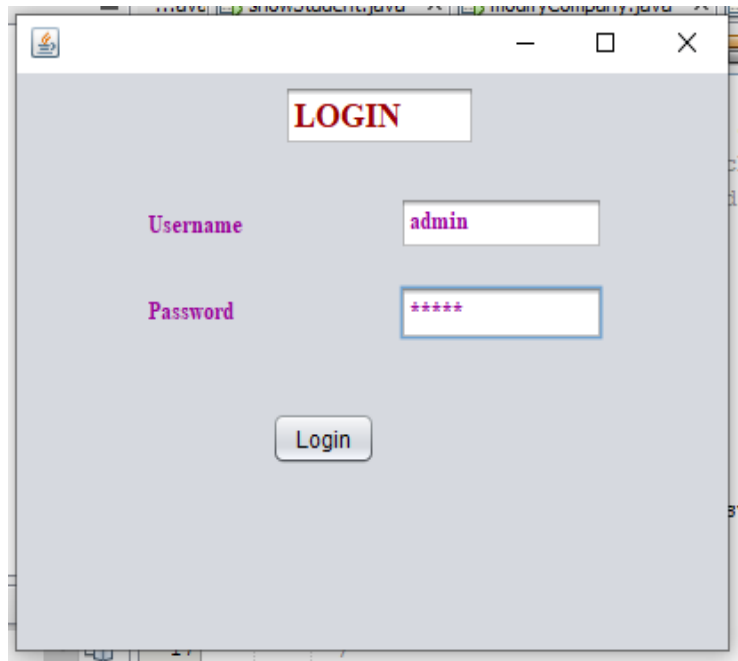
This PC > Documents > NetBeansProjects > prep_placement >				
	Name	Date modified	Type	Size
ss	build	20-06-2021 13:13	File folder	
ds	dist	19-06-2021 22:38	File folder	
ts	nbproject	17-06-2021 17:02	File folder	
ts	src	17-06-2021 17:02	File folder	
	build.xml	17-06-2021 17:02	XML Document	4 KB
	manifest.mf	17-06-2021 17:03	MF File	1 KB
ement				

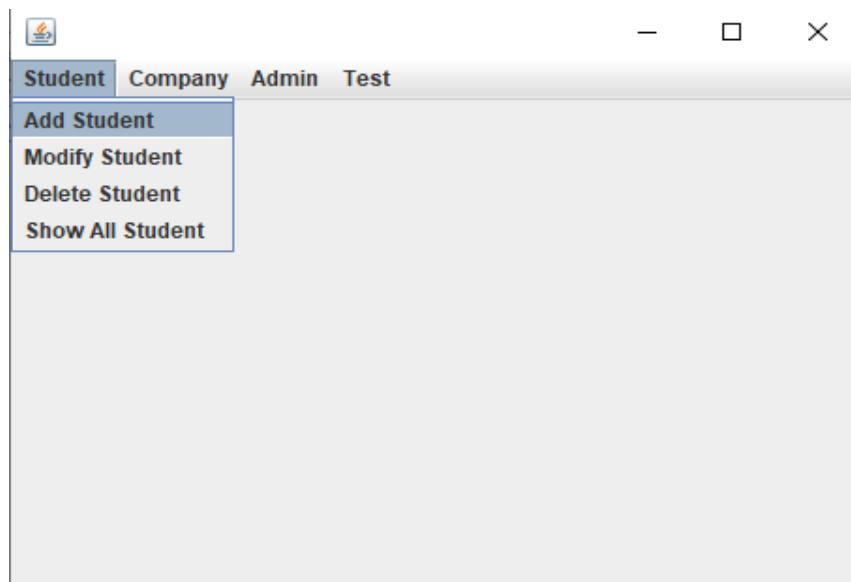
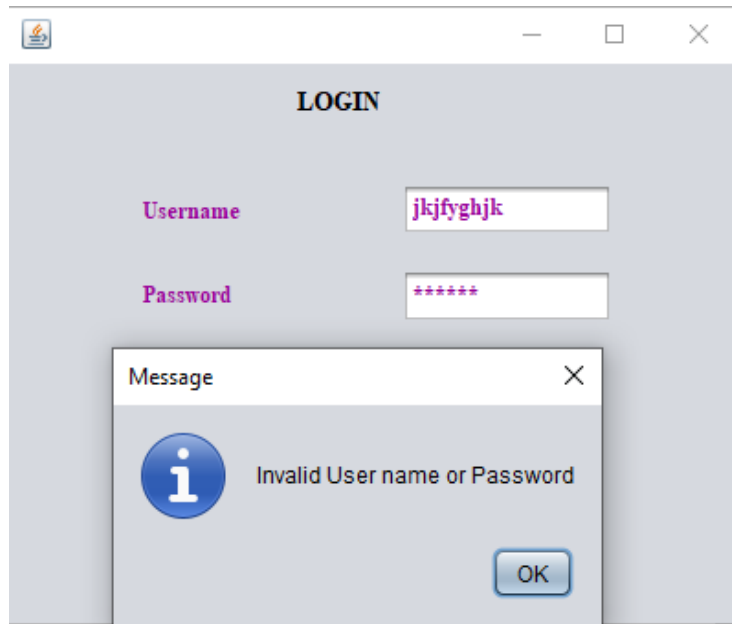
This PC > Documents > NetBeansProjects > prep_placement > src > prep_placement

	Name	Date modified	Type	Size
s	 addCompany.form	19-06-2021 22:09	FORM File	12 KB
	 addCompany.java	19-06-2021 22:09	JAVA File	13 KB
s	 addQuestion.form	19-06-2021 23:03	FORM File	12 KB
s	 addQuestion.java	19-06-2021 23:03	JAVA File	15 KB
	 addStudent.form	19-06-2021 22:09	FORM File	16 KB
	 addStudent.java	19-06-2021 22:09	JAVA File	16 KB
ment	 conductExam.form	19-06-2021 22:38	FORM File	10 KB
' (D:)	 conductExam.java	19-06-2021 22:38	JAVA File	14 KB
	 deleteCompany.form	19-06-2021 22:51	FORM File	13 KB
ts	 deleteCompany.java	19-06-2021 22:51	JAVA File	14 KB
	 deleteStudent.form	19-06-2021 21:57	FORM File	17 KB
	 deleteStudent.java	19-06-2021 21:57	JAVA File	18 KB
	 Login.form	19-06-2021 22:09	FORM File	8 KB
	 Login.java	19-06-2021 22:09	JAVA File	9 KB
	 MainScreen.form	19-06-2021 00:10	FORM File	8 KB
	 MainScreen.java	19-06-2021 00:10	JAVA File	11 KB
	 modifyCompany.form	19-06-2021 22:51	FORM File	13 KB
	 modifyCompany.java	19-06-2021 22:51	JAVA File	15 KB
	 Prep_placement.java	17-06-2021 23:08	JAVA File	1 KB
	 searchStudent.form	20-06-2021 00:40	FORM File	17 KB
	 searchStudent.java	20-06-2021 00:40	JAVA File	18 KB
	 showCompany.form	18-06-2021 21:02	FORM File	5 KB
	 showCompany.java	18-06-2021 21:02	JAVA File	7 KB
	 showStudent.form	18-06-2021 21:02	FORM File	5 KB
	 showStudent.java	18-06-2021 21:02	JAVA File	7 KB

TESTING:

OUTPUT SCREENSHOTS:





ADD STUDENT

SID

SNAME

PHONE

EMAIL

BRANCH

CGPA

ADD STUDENT

SID

SNAME

PHONE

EMAIL

BRANCH

CGPA

Message

Student added

```
SQL> select * from student;
```

SID	SNAME	PHONE	EMAIL	BRANCH	CGPA	EXAM_MARKS
1	vivek	98765	vivek@gmail.com	IT	8.7	0

ADD STUDENT

SID


SNAME

PHONE

EMAIL

Save Clear

Message X

 Student added

OK

MODIFY STUDENT

SID


SNAME

PHONE

EMAIL

BRANCH

CGPA

 — □ ×

MODIFY STUDENT

SID

2

Search

SNAME

ravi

PHONE

8765489765


EMAIL

BRANCH

CGPA

Message

×




Student Modified

OK

Update

Clear

 — □ ×

DELETE STUDENT

SID

3

Search

SNAME

varun

PHONE

93584

EMAIL

arun@gmail.com

BRANCH

Mech

▼

CGPA

9.2


Delete

Clear

DELETE STUDENT

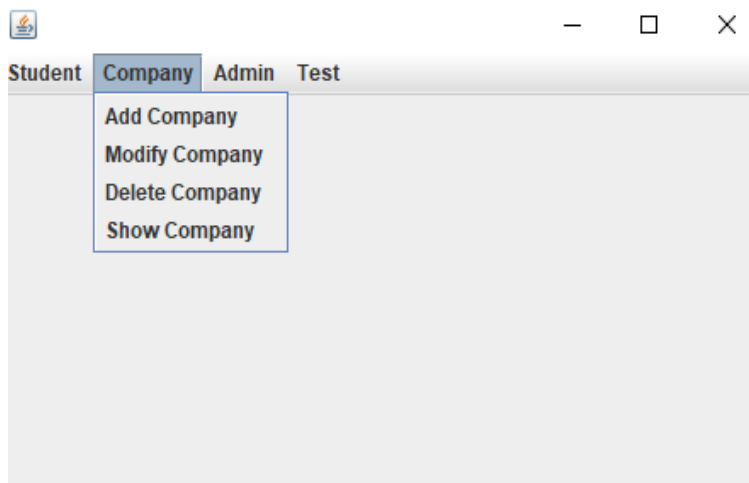
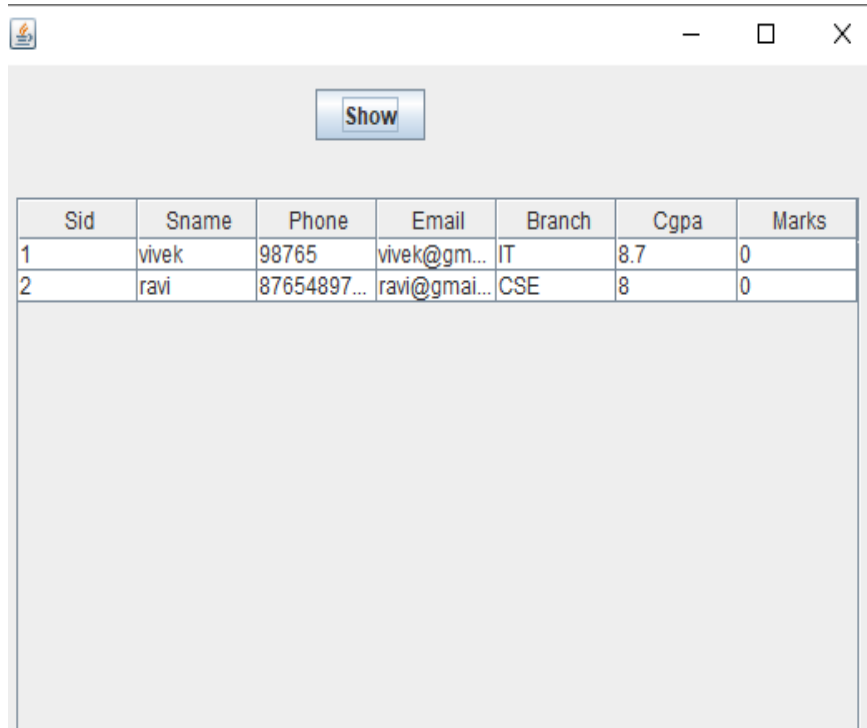
SID

Message

 Student Deleted

CGPA

Sid	Sname	Phone	Email	Branch	Cgpa	Marks



ADD COMPANY

CID

COMPANY NAME


NO_OF_SEATS

MIN_CGPA

ADD COMPANY

CID

Message


 Company added

Cid	Cname	Seats	Cgpa
1	google	29	8.2
11	amazon	23	8.1
14	oracle	14	7.8
15	tcs	34	7

MODIFY COMPANY

CID

Message

 No company found with given cid

MODIFY COMPANY

CID

COMPANY NAME


NO_OF_SEATS

MIN_CGPA

MODIFY COMPANY

CID

Message

 Company modified

DELETE COMPANY

CID

COMPANY NAME

NO_OF_SEATS


MIN_CGPA

DELETE COMPANY

CID

MIN_CGPA

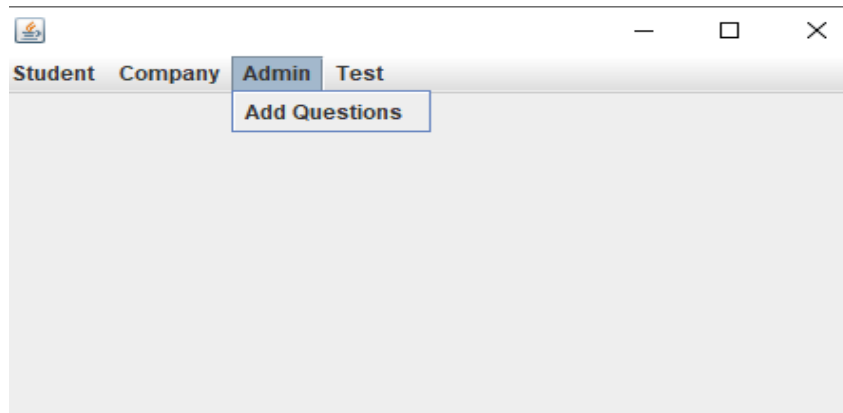
Message

 Company Deleted

Cid	Cname	Seats	Cgpa
11	amazon	23	8.1
14	oracle	54	7.8
15	tcs	34	7


```
SQL> select * from company;
```

CID	CNAME	NO_OF_SEATS	MIN_CGPA
11	amazon	23	8.1
14	oracle	54	7.8
15	tcs	34	7



A screenshot of the 'ADD QUESTION' form in the web application. The form is titled 'ADD QUESTION' and contains the following elements:

- Question:** A text input field containing the text 'Which of the following is a DDL command'.
- Option 1:** A text input field containing the text 'Alter'.
- Option 2:** A text input field containing the text 'Select'.
- Option 3:** A text input field containing the text 'Revoke'.
- Option 4:** A text input field containing the text 'Commit'.
- Correct Answer:** A section with four radio buttons and labels: 'Option 1' (selected), 'Option 2', 'Option 3', and 'Option 4'.
- Buttons:** Two buttons, 'Save' and 'Clear', are located on the right side of the form.


— □ ×

ADD QUESTION

Question

Which of the following is a DDL command


Option 1

Option 2

Option 3

Option 4


Correct Answer ☒ Option 1 ☐ Option 2 ☐ Option 3 ☐ Optio...



Question added

```
SQL> select * from questions;
```

QID	QUESTION	OPTION1	OPTION2	OPTION3	OPTION4	CORRECT_AN
4	Which of the following is a DDL command	Alter	Select	Revoke	Commit	Alter



—

□

×

ADD QUESTION

Question

12*10=?

Option 1

100

Option 2

12

Option 3

120

Option 4

1200

Save

Clear


Correct Answer

☐ Option 1

☐ Option 2

☒ Option 3

☐ Option 4



—

□

×

ADD QUESTION

Question

which NF may contain Transitive dependency?

Option 1

2NF

Option 2

3NF

Option 3

3.5NF

Option 4

4NF

Save

Clear

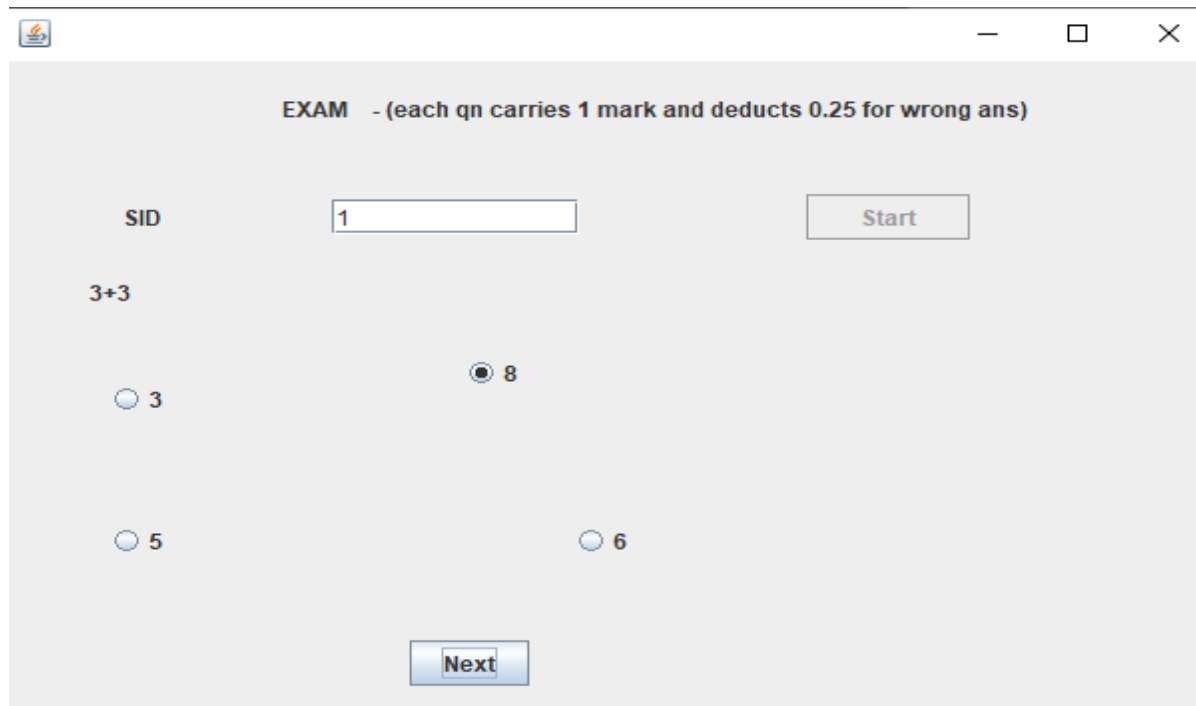
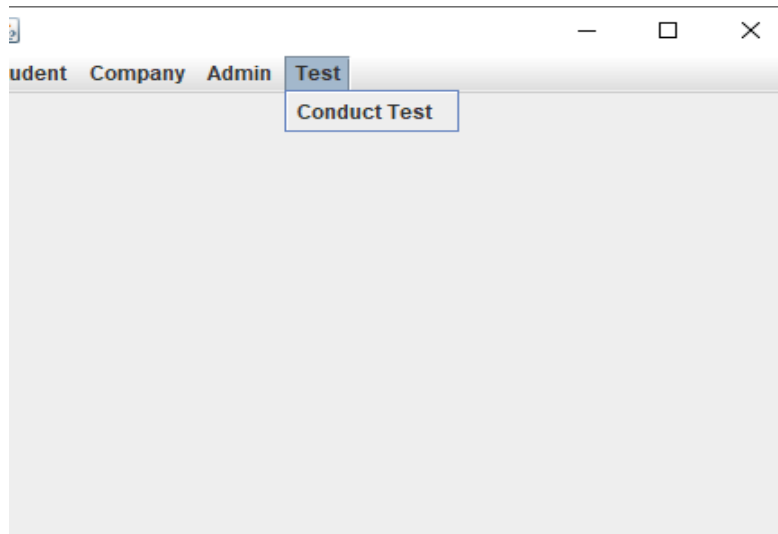
Correct Answer


☒ Option 1

☐ Option 2

☒ Option 3

☐ Option 4



— □ ×


EXAM - (each qn carries 1 mark and deducts 0.25 for wrong ans)

SID

1

Start

3+3

 Correct Answer


OK

☐ 3

☐ 5

☒ 6

Next

— □ ×

EXAM - (each qn carries 1 mark and deducts 0.25 for wrong ans)

SID

1

Start

Which of the following is a DDL command


☐ Alter

☐ Commit

☒ Select

☐ Revoke

Next

— □ ×

EXAM - (each qn carries 1 mark and deducts 0.25 for wrong ans)


SID


Which of the following is a DDL command

☐ Alter

☒ Select

Message ×

 Wrong Answer

— □ ×

EXAM - (each qn carries 1 mark and deducts 0.25 for wrong ans)

SID

which NF may contain Transitive dependency?

☒ 2NF

☐ 4NF

☐ 3NF

☐ 3.5NF

EXAM - (each qn carries 1 mark and deducts 0.25 for wrong ans)

SID

which NF may contain Transitive dependency?

☒ 2NF

☐ 3NF

☐ 3.5NF

Message

Correct Answer

EXAM - (each qn carries 1 mark and deducts 0.25 for wrong ans)

SID

what is used to find and

☐ JVM

☐ JRE

☐ JDK


Message

Test Complete, Your score is 6.75

EXAM - (each qn carries 1 mark and deducts 0.25 for wrong ans)

SID

Message

 Invalid Student id or test already conducted

Sid	Sname	Phone	Email	Branch	Cgpa	Marks
1	vivek	98765	vivek@gm...	IT	8.7	6.75
2	ravi	87654897...	ravi@gmai...	CSE	8	0

DISCUSSION AND FUTURE WORK

So far this project has helped us to manage student records to update delete and view record of student and company, admin can add questions and student can take test.

In future we try to include the job attribute, where based on the qualified students exam marks and min seats of company, the student will get their respective job.

REFERENCES:

1. Abraham Silberschatz, Henry F Korth, S. Sudarshan, Database System Concepts, 6th Edition, McGraw-Hill International Edition, 2010.

https://docs.oracle.com/cd/E11882_01/server.112/e40540/intro.htm#CNCPT001