Student Name: Vinit Raj Singh   ID: 1000020762   Major:CSE

Instructions
- There are 2 set of questions in this assignment complete any one set of them.
- Email/paper/other modes of submissions will not be accepted.
- Upload a .java file and a word document as answer.
- Assignment submitted after due date will not be evaluated and a score of zero will be awarded.
- Plagiarism may lead to award of zero marks.

Due Date: 13:00 pm, August 29, 2025.

Submitting this Assignment

You will submit (upload) this assignment in LMS Moodle. Name this document as NGLA1_Java_ODD2025_John_Doe.doc in case your name is John Doe, and this nongraded lab assignment is 1 of course whose acronym is Java, and offered in Odd 2025. Paste your code after each question, paste the screenshot of output, save and upload the document.

Grading Scheme: This assignment has 5 marks.

Graded Lab Assignment 1 – CSN302 Sec N
Advanced Java Programming, Odd Sem, 2025

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Question 1: Write a program in Java to Create Form that ask user to fill following details user_name, User_mail_id, user_mob_number, user_add, user_gender, user password and two check for term and Condition and after clicking on submit it show the details on text box or in message.

Code:

```java
import javax.swing.*;
import java.awt.event.*;

public class UserFormAbsolute extends JFrame implements ActionListener {
    JTextField nameField, emailField, mobileField, addressField;
    JPasswordField passwordField;
    JRadioButton male, female;
    JCheckBox terms;
    JButton submit, reset;
    JTextArea output;

    UserFormAbsolute() {
        setTitle(title:"User Registration Form");
        setSize(width:500, height:600);
        setLayout(manager:null);
        setDefaultCloseOperation(EXIT_ON_CLOSE);
        setLocationRelativeTo(c:null);

        JLabel nameLabel = new JLabel(text:"User Name:");
        nameLabel.setBounds(x:30, y:30, width:100, height:25);
        add(nameLabel);
        nameField = new JTextField();
        nameField.setBounds(x:150, y:30, width:200, height:25);
        add(nameField);

        JLabel emailLabel = new JLabel(text:"Email:");
        emailLabel.setBounds(x:30, y:70, width:100, height:25);
        add(emailLabel);
        emailField = new JTextField();
        emailField.setBounds(x:150, y:70, width:200, height:25);
        add(emailField);

        JLabel mobileLabel = new JLabel(text:"Mobile:");
        mobileLabel.setBounds(x:30, y:110, width:100, height:25);
        add(mobileLabel);
        mobileField = new JTextField();
        mobileField.setBounds(x:150, y:110, width:200, height:25);
        add(mobileField);

        JLabel addressLabel = new JLabel(text:"Address:");
        addressLabel.setBounds(x:30, y:150, width:100, height:25);
        add(addressLabel);
        addressField = new JTextField();
        addressField.setBounds(x:150, y:150, width:200, height:25);
        add(addressField);
```
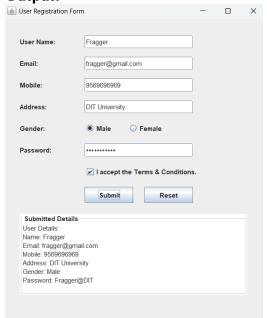
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```java
46
47          JLabel genderLabel = new JLabel(text:"Gender:");
48          genderLabel.setBounds(x:30, y:190, width:100, height:25);
49          add(genderLabel);
50          male = new JRadioButton(text:"Male");
51          male.setBounds(x:150, y:190, width:70, height:25);
52          female = new JRadioButton(text:"Female");
53          female.setBounds(x:230, y:190, width:80, height:25);
54          ButtonGroup bg = new ButtonGroup();
55          bg.add(male); bg.add(female);
56          add(male); add(female);
57
58          JLabel passLabel = new JLabel(text:"Password:");
59          passLabel.setBounds(x:30, y:230, width:100, height:25);
60          add(passLabel);
61          passwordField = new JPasswordField();
62          passwordField.setBounds(x:150, y:230, width:200, height:25);
63          add(passwordField);
64
65          terms = new JCheckBox(text:"I accept the Terms & Conditions.");
66          terms.setBounds(x:150, y:270, width:250, height:25);
67          add(terms);
68
69          submit = new JButton(text:"Submit");
70          submit.setBounds(x:150, y:310, width:90, height:30);
71          reset = new JButton(text:"Reset");
72          reset.setBounds(x:260, y:310, width:90, height:30);
73          submit.addActionListener(this);
74          reset.addActionListener(this);
75          add(submit);
76          add(reset);
77
78          output = new JTextArea();
79          output.setBounds(x:30, y:360, width:420, height:150);
80          output.setEditable(b:false);
81          output.setBorder(BorderFactory.createTitledBorder(title:"Submitted Details"));
82          add(output);
83
84          setVisible(b:true);
85      }
86
87   public void actionPerformed(ActionEvent e) {
88       if (e.getSource() == submit) {
```

Graded Lab Assignment 1 – CSN302 Sec N
Advanced Java Programming, Odd Sem, 2025

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```java
87      public void actionPerformed(ActionEvent e) {
88          if (e.getSource() == submit) {
89              if (!terms.isSelected()) {
90                  JOptionPane.showMessageDialog(this, message:"You must accept Terms & Conditions!");
91                  return;
92              }
93              String gender = male.isSelected() ? "Male" : (female.isSelected() ? "Female" : "Not selected");
94              String data = "User Details:\n"
95                      + "Name: " + nameField.getText() + "\n"
96                      + "Email: " + emailField.getText() + "\n"
97                      + "Mobile: " + mobileField.getText() + "\n"
98                      + "Address: " + addressField.getText() + "\n"
99                      + "Gender: " + gender + "\n"
100                     + "Password: " + new String(passwordField.getPassword());
101             output.setText(data);
102             JOptionPane.showMessageDialog(this, data, title:"Submitted Data", JOptionPane.INFORMATION_MESSAGE);
103         } else if (e.getSource() == reset) {
104             nameField.setText(t:"");
105             emailField.setText(t:"");
106             mobileField.setText(t:"");
107             addressField.setText(t:"");
108             passwordField.setText(t:"");
109             male.setSelected(b:false);
110             female.setSelected(b:false);
111             terms.setSelected(b:false);
112             output.setText(t:"");
113         }
114     }
115
        Run main | Debug main | Run | Debug
116     public static void main(String[] args) {
117         new UserFormAbsolute();
118     }
119 }
```

Output:

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Question 2: Write a Java program to demonstrate the super and this key work utility on java programming **.**

Code:

```java
class Person {
    String name;
    int age;

    Person(String name, int age) {
        this.name = name;
        this.age = age;
    }

    void displayInfo() {
        System.out.println("Person Name: " + name);
        System.out.println("Person Age: " + age);
    }
}

class Student extends Person {
    String course;

    // Constructor
    Student(String name, int age, String course) {
        super(name, age);
        this.course = course;
    }

    @Override
    void displayInfo() {
        super.displayInfo(); // 'super' calls parent method
        System.out.println("Student Course: " + this.course);
    }
}

public class Q2{
    Run main | Debug main | Run | Debug
    public static void main(String[] args) {
        Student s1 = new Student(name:"Vinit", age:20, course:"Computer Science");
        s1.displayInfo();
    }
}
```

Output:

```
PS C:\Users\vinit\Desktop\Graded> javac Q2.java
PS C:\Users\vinit\Desktop\Graded> java Q2.java
Person Name: Vinit
Person Age: 20
Student Course: Computer Science
PS C:\Users\vinit\Desktop\Graded>
```