



Programmer Name: Neha Kamalakar Nemade

Batch: L5

Problem Statement: (Type statement here)

Develop a GUI which accepts the information regarding the marks for all the subjects of a student in the examination. Display the result for a student in a separate window

Code –

```
package assignment10;
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;

public class Assignment10 extends JFrame
{
    JFrame j1;JLabel lb1;JLabel lb2;JLabel lb3;
    JLabel lb4;JLabel lb5;JLabel lb6;JLabel lb7;
    JLabel lb8;JLabel lb9;
    JTextField tf1;JTextField tf2;JTextField tf3;
    JTextField tf4;JTextField tf5;JTextField tf6;
    JTextField tf7;JTextField tf8;
    JComboBox div;
    JComboBox dept;
    JButton b1;
    JButton b2;
    JButton b3;

    Assignment10()
    {
        j1 = new JFrame();
        JFrame.setDefaultLookAndFeelDecorated(true);
        lb1 = new JLabel("Enter Name");
        lb2 = new JLabel("Select Division");
        lb3 = new JLabel("Enter Id");
        lb4 = new JLabel("Enter Mn");
        lb5 = new JLabel("Select Department");
        lb6 = new JLabel("Subject 1 Marks");
        lb7 = new JLabel("Subject 2 Marks");
        lb8 = new JLabel("Subject 3 Marks");
        lb9 = new JLabel("Subject 4 Marks");
        tf1 = new JTextField();
        tf1.setPreferredSize(new Dimension(50,50));
        tf2 = new JTextField();
        tf2.setPreferredSize(new Dimension(50,50));
```



```
tf3 = new JTextField();
tf3.setPreferredSize(new Dimension(50,50));
tf4 = new JTextField();
tf4.setPreferredSize(new Dimension(50,50));
tf5 = new JTextField();
tf5.setPreferredSize(new Dimension(50,50));
tf6 = new JTextField();
tf6.setPreferredSize(new Dimension(50,50));
tf7 = new JTextField();
tf7.setPreferredSize(new Dimension(50,50));
tf8 = new JTextField();
tf8.setPreferredSize(new Dimension(50,50));
div = new JComboBox();
dept = new JComboBox();
b1 = new JButton("Get Result");
b2 = new JButton("Close");
```

```
div.addItem("1");
div.addItem("2");
div.addItem("3");
div.addItem("4");
div.addItem("5");
div.addItem("6");
```

```
dept.addItem("Comp");
dept.addItem("IT");
dept.addItem("Entc");
b1.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent actionEvent) {
        String s1 = tf1.getText();
        String s2 = tf2.getText();
        String s3 = tf3.getText();
        int a = Integer.parseInt(tf4.getText());
        int b = Integer.parseInt(tf5.getText());
        int c = Integer.parseInt(tf6.getText());
        int d = Integer.parseInt(tf7.getText());
        double sum = (double)(a+b+c+d);
        double res = (sum/(double)400)*(double)100;
        String division = (String) div.getItemAt(div.getSelectedIndex());
        String department = (String) dept.getItemAt(dept.getSelectedIndex());
        j1.setVisible(false);
        System.out.println(s1);
        System.out.println(s2);
        System.out.println(s3);
        System.out.println(division);
```



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Roll No: 32147

Date:

```
System.out.println(department);
System.out.println(res);
JOptionPane.showMessageDialog(j1, "Name -" +s1 + "\r\n" + "Id -" + s2 + "\r\n" + "Mn -" +s3
+ "\r\n " + "Division -" + division + "\r\n " + "Department -" + department + "\r\n" + "Result in
percentage - " + res );
}
});

b2.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent actionEvent) {
        j1.setVisible(false);
    }
});

j1.add(lb1);j1.add(tf1);j1.add(lb2);j1.add(div);j1.add(lb3);j1.add(tf2);j1.add(lb4);j1.add(tf3);
j1.add(lb5);j1.add(dept);j1.add(lb6); j1.add(tf4);j1.add(lb7);
j1.add(tf5);j1.add(lb8);j1.add(tf6);j1.add(lb9); j1.add(tf7)
;j1.add(b1);j1.add(b2);
j1.setSize(1000,1000);
j1.setLayout(new GridLayout(24,12));
j1.setVisible(true);
}
public static void main(String[] args)
{
    Assignment10 j = new Assignment10();
}
}
```

Output –

Neha
72016770B
8668455295
6
Entc
65.0



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The screenshot displays an IDE with two main components: a code editor on the left and a GUI preview on the right.

Code Editor (Assignment10.java):

```
14 JTextField tf7;JTextField tf8;
15 JComboBox div;
16 JComboBox dept;
17 JButton b1;
18 JButton b2;
19 JButton b3;
20
21 Assignment10()
22 {
23     j1 = new JFrame();
24     JFrame.setDefaultLookAndFeelDecorated(true);
25     lb1 = new JLabel("Enter Name");
26     lb2 = new JLabel("Select Division");
27     lb3 = new JLabel("Enter Id");
28     lb4 = new JLabel("Enter Mn");
29     lb5 = new JLabel("Select Department");
30     lb6 = new JLabel("Subject 1 Marks");
31     lb7 = new JLabel("Subject 2 Marks");
32     lb8 = new JLabel("Subject 3 Marks");
33     lb9 = new JLabel("Subject 4 Marks");
34     tf1 = new JTextField();
35     tf1.setPreferredSize(new Dimension(50,50));
36     tf2 = new JTextField();
37     tf2.setPreferredSize(new Dimension(50,50));
38     tf3 = new JTextField();
39     tf3.setPreferredSize(new Dimension(50,50));
40     tf4 = new JTextField();
41     tf4.setPreferredSize(new Dimension(50,50));
42     tf5 = new JTextField();
43     tf5.setPreferredSize(new Dimension(50,50));
44     tf6 = new JTextField();
45     tf6.setPreferredSize(new Dimension(50, 50));
```

GUI Preview:

The GUI is a window titled "Assignment10" with a light gray background. It contains the following elements:

- Enter Name:** A text input field with the value "Priti".
- Select Division:** A dropdown menu with the value "6".
- Enter Id:** A text input field with the value "72016770B".
- Enter Mn:** A text input field with the value "8668455295".
- Select Department:** A dropdown menu with the value "Entc".
- Subject 1 Marks:** A text input field with the value "56".
- Subject 2 Marks:** A text input field with the value "89".
- Subject 3 Marks:** A text input field with the value "63".
- Subject 4 Marks:** A text input field with the value "52".
- Get Result:** A button.
- Close:** A button.