

### PRACTICAL 3

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

**Code:**

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

public class Student extends Frame implements ActionListener
{
    Label l1name, l1rollno, l1class, l1gender, l1sbg, l1smob, l1sadr,
    l1english, l1physics, l1chemistry, l1maths, l1lit, l1marks, l1marks2, l1marks3, l1marks4, l1marks5;
    CheckboxGroup gender;
    Checkbox male, female;
    Choice c1class;
    TextField t1f1name, t1f1rollno, t1f1smob, t1f1english, t1f1physics, t1f1chemistry, t1f1maths, t1f1lit;
    TextArea t1asadr;
    Button submit;

    TextArea display_details;

    Student()
    {
        l1name = new Label("Name : ");
        l1rollno = new Label("Roll No : ");
        l1class = new Label("Class : ");
        l1gender = new Label("Gender : ");
        l1sbg = new Label("Blood Group : ");
        l1smob = new Label("Seat No. : ");
        l1sadr = new Label("Address : ");
        l1english = new Label("ENGLISH");
        l1physics = new Label("PHYSICS");
        l1chemistry = new Label("CHEMISTRY");
        l1maths = new Label("MATHS");
        l1lit = new Label("INFORMATION TECHNOLOGY");
        l1marks = new Label("/100");
        l1marks2 = new Label("/100");
        l1marks3 = new Label("/100");
        l1marks4 = new Label("/100");
        l1marks5 = new Label("/100");
        gender = new CheckboxGroup();
        male = new Checkbox("Male", gender, false);
        female = new Checkbox("Female", gender, false);

        c1class = new Choice();
        c1class.add("11th(SCIENCE)");
        c1class.add("12th(SCIENCE)");
    }
}
```

```

        tfsname = new TextField();
        tfsrollno = new TextField();
        tfsmob = new TextField();
        tfenglish = new TextField();
        tfphysics = new TextField();
        tfchemistry = new TextField();
        tfmaths = new TextField();
        tfit = new TextField();

        tasadrs = new TextArea("", 2 , 100 , TextArea.SCROLLBARS_NONE);

        submit = new Button("Submit");

        display_details = new TextArea("", 2 , 100 ,
TextArea.SCROLLBARS_NONE);
        display_details.setEditable(false);

        lname.setBounds(10, 50, 50, 20);
        tfsname.setBounds(70, 50, 150, 20);

        lrollno.setBounds(240, 50, 50, 20);
        tfsrollno.setBounds(300, 50, 150, 20);

        lclass.setBounds(10, 80, 50, 20);
        csclass.setBounds(70, 80, 150, 20);

        lgender.setBounds(240, 90, 50, 20);
        male.setBounds(300, 90, 50, 20);
        female.setBounds(360, 90, 60, 20);

        lsmob.setBounds(10, 130, 50, 20);
        tfsmob.setBounds(70, 130, 150, 20);

        lsadrs.setBounds(10, 180, 50, 20);
        tasadrs.setBounds(70, 180, 380, 70);

        submit.setBounds(10, 600, 440, 30);

        display_details.setBounds(660, 50, 670, 700);

        lenglish.setBounds(10,300,60,20);
        tfenglish.setBounds(80,300,40,20);
        lmarks.setBounds(125,300,40,20);

        lphysics.setBounds(10,350,60,20);
        tfphysics.setBounds(80,350,40,20);
        lmarks2.setBounds(125,350,40,20);

        lchemistry.setBounds(10,400,75,20);

```

```
tfchemistry.setBounds(85,400,40,20);
    lmarks3.setBounds(125,400,40,20);
```

```
lmaths.setBounds(10,450,50,20);
tfmaths.setBounds(70,450,40,20);
    lmarks4.setBounds(115,450,40,20);
```

```
lit.setBounds(10,500,170,20);
tfit.setBounds(190,500,40,20);
    lmarks5.setBounds(225,500,40,20);
```

```
add(lmarks);
add(lmarks2);
add(lmarks3);
add(lmarks4);
add(lmarks5);
    add(lcname);
    add(lscrollno);
    add(lclass);
    add(lgender);
    add(lsb);
    add(lsadr);
    add(lsmob);
```

```
add(male);
add(female);
```

```
add(csclass);
```

```
add(tfsname);
add(tfscrollno);
add(tasadr);
add(tfsmob);
```

```
// add(trainpass);
```

```
add(submit);
```

```
add(display_details);
```

```
add(lenglish);
add(tfenglish);
```

```
add(lphysics);
add(tfphysics);
```

```
add(lchemistry);
add(tfchemistry);
```

```
add(lmaths);
```

```

        add(tfmaths);

        add(lit);
        add(tfit);

        submit.addActionListener(this);

        setTitle("Students Details");
        setSize(460,390);
        setLayout(null);
        setVisible(true);

        addWindowListener(new WindowAdapter()
        {
            public void windowClosing(WindowEvent e)
            {
                dispose();
            }
        });
    }

    public void actionPerformed(ActionEvent e)
    {
        if(e.getSource()==submit)
        {
            double eng = Double.parseDouble(tfenglish.getText());
            double phy = Double.parseDouble(tfphysics.getText());
            double chem = Double.parseDouble(tfchemistry.getText());
            double maths = Double.parseDouble(tfmaths.getText());
            double it = Double.parseDouble(tfit.getText());
            double perc = ((eng+phy+chem+maths+it)/500)*100;
            double total = (eng + phy + chem + maths + it);

            String sdetails = " ***** K. K. Wagh College of
Engineering Education ***** \n \t\tPanchavati,Nashik-422004
\n\nName : " + tfsname.getText() + "\nRoll No. : " + tfsrollno.getText() + "\nClass : " +
csclass.getSelectedItem() + "\nGender : " + gender.getSelectedCheckbox().getLabel() +
"\nSeat No. : " + tfsmob.getText() + "\nAddress : " + tasadrs.getText() + "\n\n
***** RESULT ***** \n\nSUBJECT \t\t\t
MARKS OBTAINED \t\t TOTAL MARKS \nENGLISH \t\t\t " + tfenglish.getText() + "
\t\t\t /100 \n\nPHYSICS \t\t\t " + tfphysics.getText() + " \t\t\t /100 \n\nCHEMISTRY
\t\t\t " + tfchemistry.getText() + " \t\t\t /100 \n\nMATHS \t\t\t " + tfmaths.getText() + "
\t\t\t /100 \n\nINFORMATION TECHNOLOGY \t\t " + tfit.getText() + " \t\t\t /100 \n\n
***** TOTAL MARKS ***** \n\n TOTAL =
"+ total + " /500\n\n ***** PERCENTAGE
***** \n\n PERCENTAGE = " + perc + " %";

            display_details.setText(sdetails);
        }
    }
}

```

```

        public static void main(String[] args)
        {
            new Student();
        }
    }

```

## Output:

Students Details

Name :

Roll No :

Class :

Gender : ☒ Male ☐ Female

Seat No. :

Address :

ENGLISH  /100

PHYSICS  /100

CHEMISTRY  /100

MATHS  /100

INFORMATION TECHNOLOGY  /100

Submit

Students Details

Name :

Roll No :

Class :

Gender : ☒ Male ☐ Female

Seat No. :

Address :

ENGLISH  /100

PHYSICS  /100

CHEMISTRY  /100

MATHS  /100

INFORMATION TECHNOLOGY  /100

Submit

\*\*\*\*\* K. K. Wagh College of Engineering Education \*\*\*\*\*

Panchavati,Nashik-422004

Name : Harshal Bhamre

Roll No. :06

Class : 11th(SCIENCE)

Gender : Male

Seat No. : 119311029

Address : sdgdgfdg

\*\*\*\*\* RESULT \*\*\*\*\*

SUBJECT	MARKS OBTAINED	TOTAL MARKS
ENGLISH	78	/100
PHYSICS	87	/100
CHEMISTRY	99	/100
MATHS	67	/100
INFORMATION TECHNOLOGY	98	/100

\*\*\*\*\* TOTAL MARKS \*\*\*\*\*

TOTAL = 429.0 /500

\*\*\*\*\* PERCENTAGE \*\*\*\*\*

PERCENTAGE = 85.8 %