

# **ADVANCE JAVA PROGRAMMING LAB FILE**

*Submitted by*

**Vaibhav Srivastava**

**A41890819038**

Computer Engineering (DIPLOMA) 2019-2022

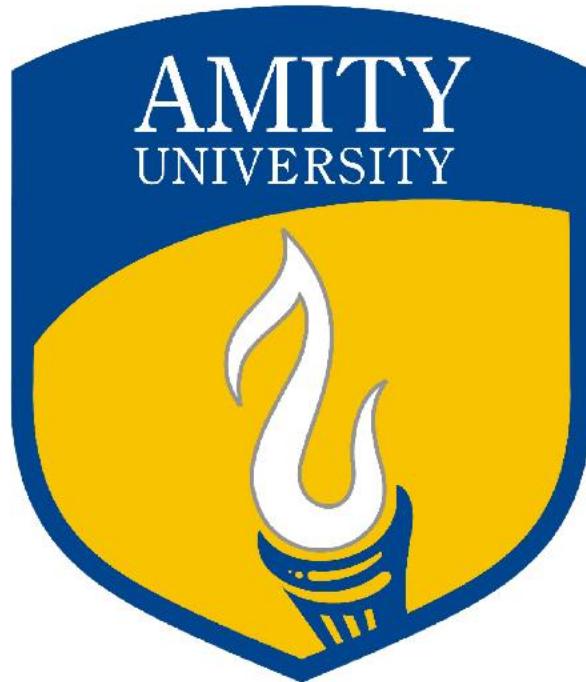
*In Partial fulfilment toward the award*

*Of*

DIPLOMA

In

**Computer Engineering**



**DEPARTMENT OF COMPUTER ENGINEERING**

AMITY UNIVERSITY GREATER NOIDA  
GAUTAM BUDDH NAGAR

## **PRACTICALS**

1.	<b>TO CREATE A FRAME AND BUTTON USING AWT IN JAVA.</b>
2.	<b>TO CREATE A TEXTFIELD USING AWT IN JAVA.</b>
3.	<b>TO CREATE A LIST USING AWT IN JAVA.</b>
4.	<b>TO CREATE A SCROLLBAR USING AWT IN JAVA.</b>
5.	<b>TO CREATE A CHOICE USING AWT IN JAVA.</b>
6.	<b>WAP IN JAVA TO CREATE An EVENT ON BUTTON.</b>
7.	<b>TO CREATE FRAME AND BUTTON IN SWING.</b>
8.	<b>TO CREATE PASSWORD FIELD IN SWING.</b>
9.	<b>TO CREATE RADIOPBUTTON USING SWING.</b>
10.	<b>TO CREATE LIST IN SWING.</b>
11.	<b>TO CREATE A TABLE IN SWING.</b>
12.	<b>TO CREATE A SWING USING EXCEPTION HANDLING.</b>

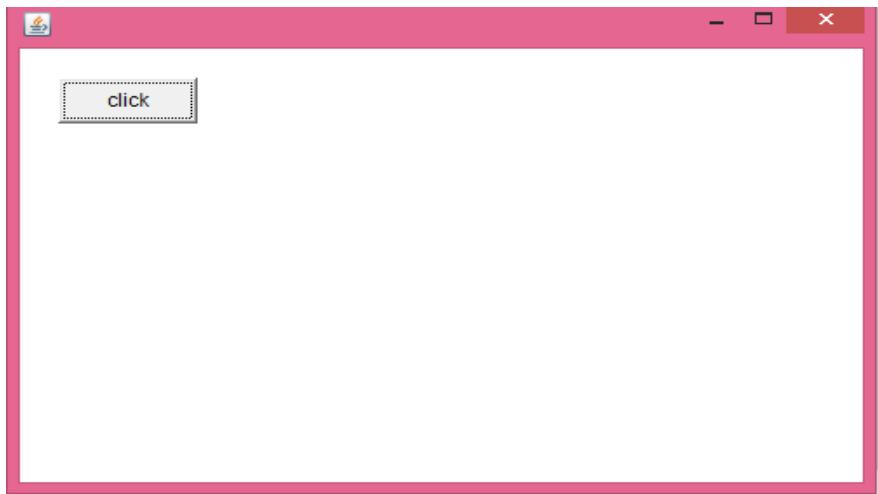
## PROGRAM 1

### AIM-CREATE A FRAME AND BUTTON IN AWT

**CODE:**

**DATED: 22-07-2021**

```
import java.awt.*;
class java extends Frame {
    java() {
        Button b = new Button ("click");
        b.setBounds (30,50,80,30);
        add(b);
        setSize(500,500);
        setLayout(null);
        setVisible(true);
    }
    public static void main (String args[])
    {
        java f = new java ();
    }
}
```



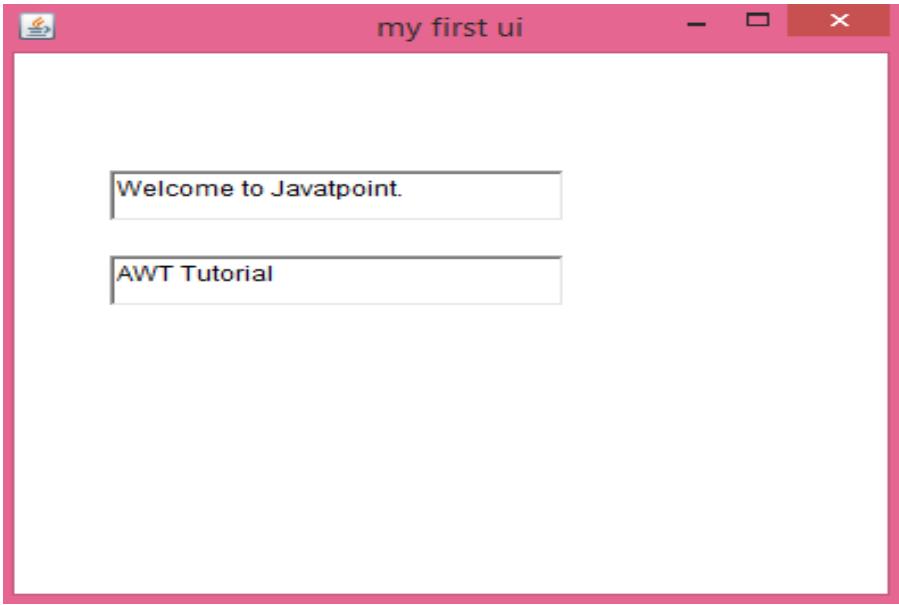
## PROGRAM 2

### AIM-CREATE A TEXTFIELD IN AWT

**CODE:**

**DATED: 29-07-2021**

```
import java.awt.*;
class textfield
{
public static void main(String args[])
{
Frame f= new Frame("my first ui");
TextField t1,t2;
t1=new TextField("Welcome to Javatpoint.");
t1.setBounds(50,100, 200,30);
t2=new TextField("AWT Tutorial");
t2.setBounds(50,150, 200,30);
f.add(t1);
f.add(t2);
f.setSize(400,400);
f.setLayout(null);
f.setVisible(true);
}
}
```



## PROGRAM 3

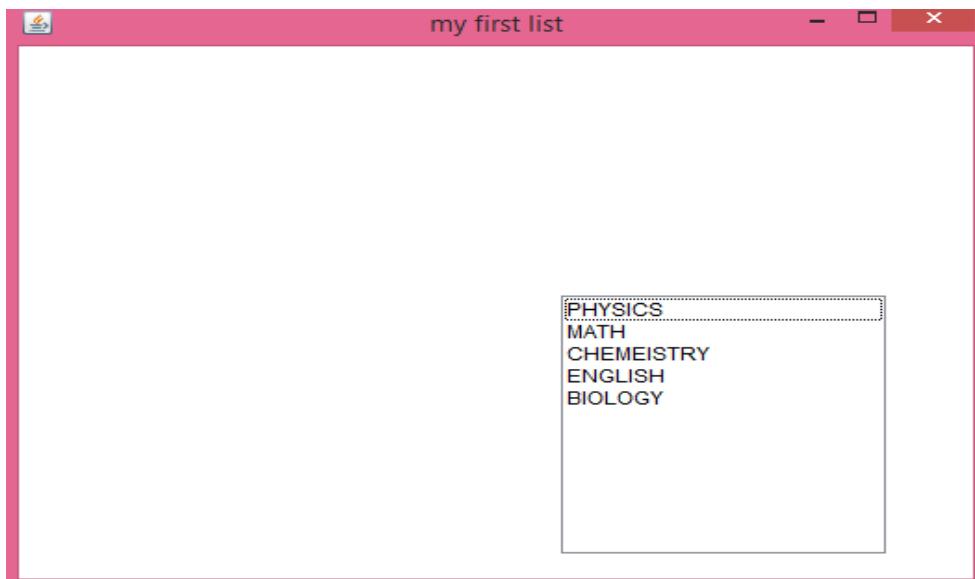
### AIM-TO CREATE A LIST USING AWT IN JAVA.

**CODE:**

**DATED: 30-07-2021**

```
public class ListExample
{
    ListExample()
    {
        Frame f= new Frame("my first list");
        List l5=new List(3); // parameter in list or list values
        l5.setBounds(300,200, 175,175); //
        l5.add("PHYSICS");
        l5.add("MATH");
        l5.add("CHEMISTRY ");
        l5.add("ENGLISH ");
        l5.add("BIOLOGY ");
        f.add(l5);
        f.setSize(400,400);
        f.setLayout(null);
        f.setVisible(true);
    }
    public static void main(String args[])
    {
        new ListExample();
    }
}
```

}



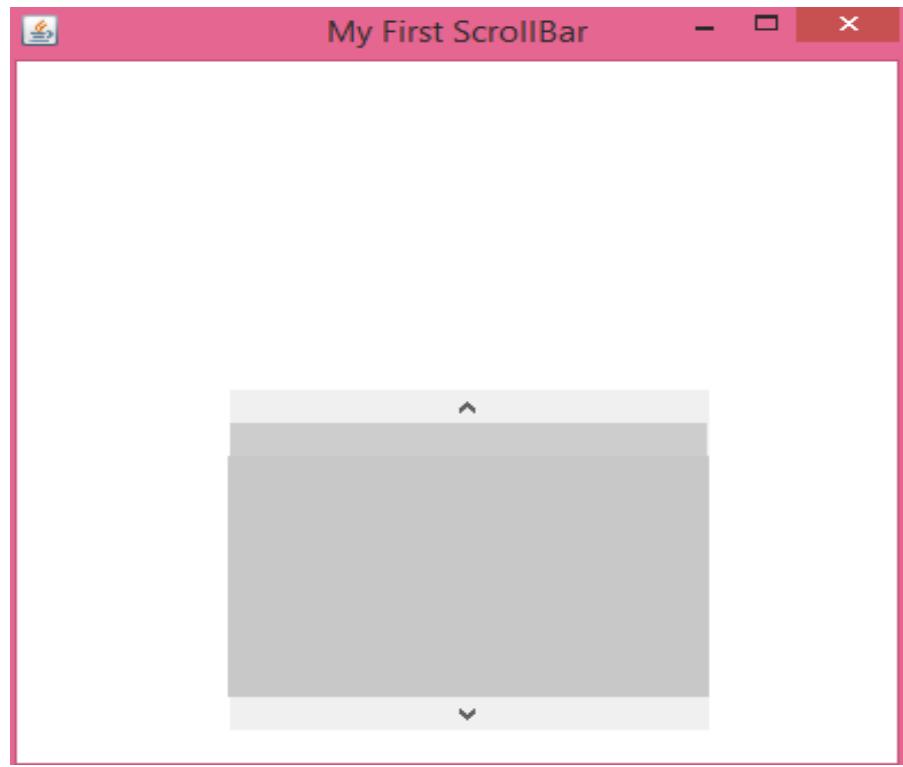
## **PROGRAM 4**

### **AIM-TO CREATE A SCROLLBAR USING AWT IN JAVA.**

**CODE:**

**DATED: 03-08-2021**

```
import java.awt.*;
class ScrollBar
{
ScrollBar()
{
Frame f= new Frame("My First ScrollBar");
Scrollbar s= new Scrollbar();
s.setBounds(100,200,210,175);
f.add(s);
f.setSize(400,400);
f.setLayout(null);
f.setVisible(true);
}
public static void main(String args[])
{
new ScrollBar();
}
```



## PROGRAM 5

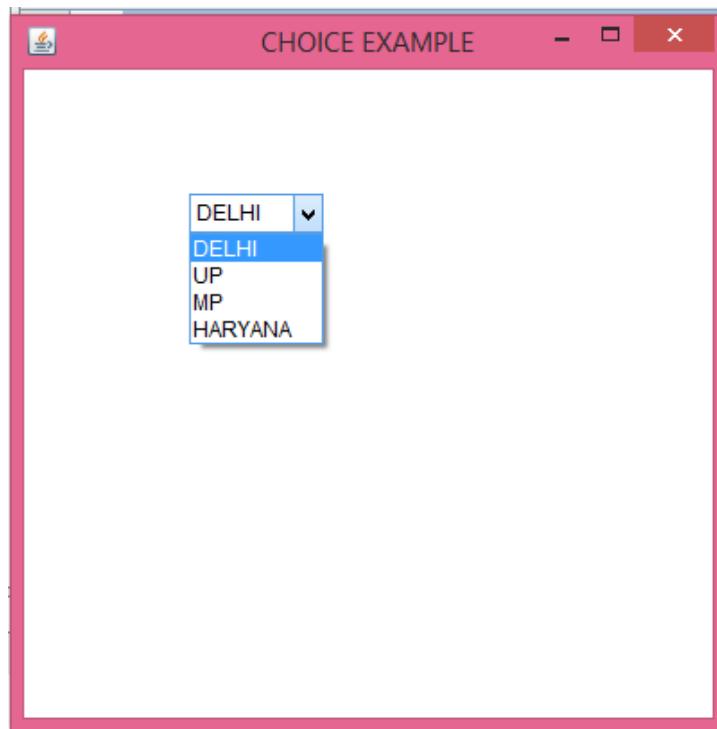
### AIM-TO CREATE A CHOICE USING AWT IN JAVA.

**CODE:**

**DATED: 05-08-2021**

```
import java.awt.*;
class choice
{
    choice()
    {
        Frame f= new Frame("CHOICE EXAMPLE");
        Choice c=new Choice();
        c.setBounds(100,100, 75,75);
        c.add("DELHI");
        c.add("UP");
        c.add("MP");
        c.add("HARYANA");
        f.add(c);
        f.setSize(400,400);
        f.setLayout(null);
        f.setVisible(true);
    }
    public static void main(String args[])
    {
        new choice();
    }
}
```

```
}
```



## PROGRAM 6

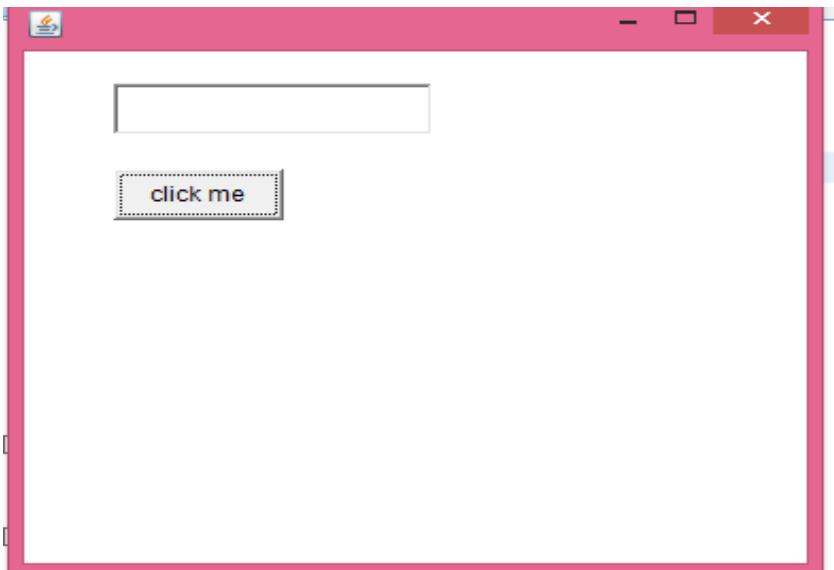
### AIM-WAP IN JAVA TO CREATE An EVENT ON BUTTON.

CODE:

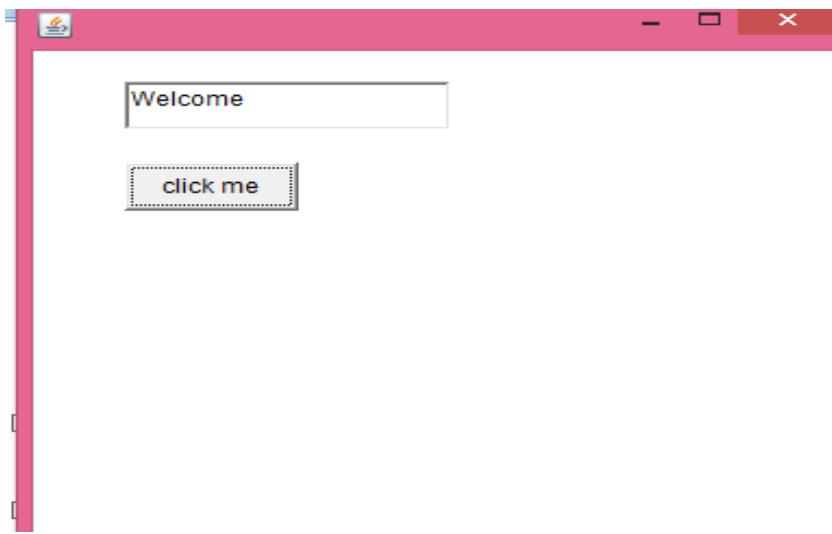
DATED: 06-08-2021

```
import java.awt.*;
import java.awt.event.*;
class Event extends Frame implements ActionListener{
    TextField tf;
    Event(){
        //create component
        tf=new TextField();
        Button b=new Button("click me");
        tf.setBounds(50,50,150,30);
        b.addActionListener(this);
        b.setBounds(50,100,80,30);
        add(b);
        add(tf);
        setSize(300,300);
        setLayout(null);
        setVisible(true);
    }
    public void actionPerformed(ActionEvent e)
    {
        tf.setText("Welcome");
    }
}
```

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



AFTER "CLICK ME"



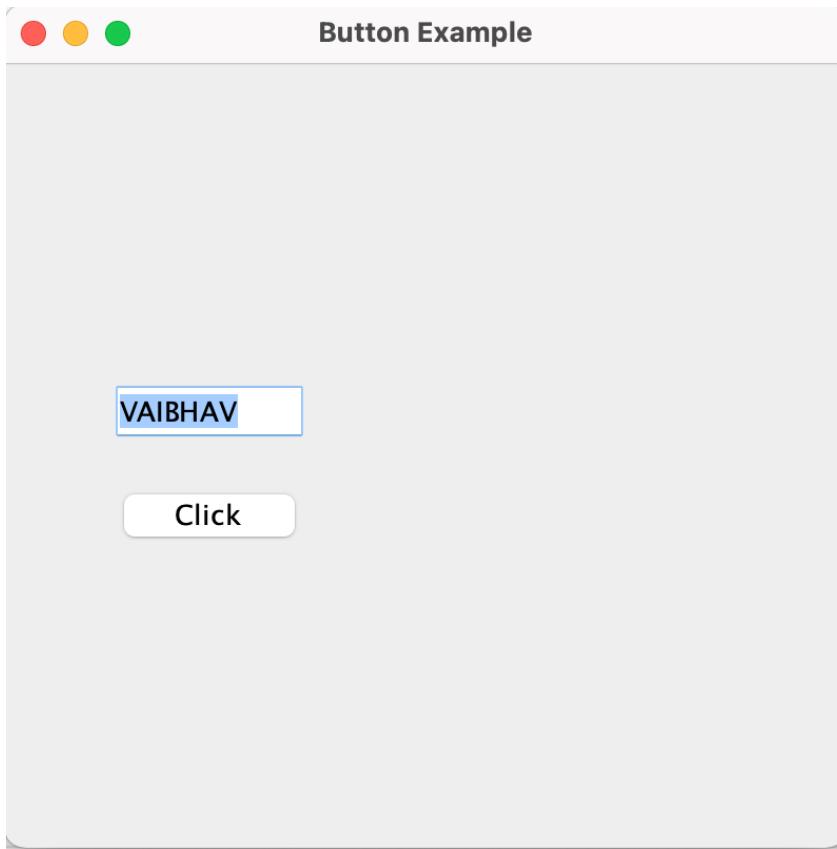
## **PROGRAM 7**

### **AIM- TO CREATE FRAME AND BUTTON IN SWING.**

**CODE:**

**DATED: 19-08-2021**

```
import javax.swing.*;
public class Button
{
    public static void main(String [] args)
    {
        JFrame f=new JFrame("Button Example");
        JTextField t=new JTextField("VAIBHAV");
        t.setBounds(50,150,95,30);
        JButton b=new JButton("Click");
        b.setBounds(50,200,95,30);
        f.add(b);
        f.add(t);
        f.setSize(400,400);
        f.setLayout(null);
        f.setVisible(true);
    }
}
```



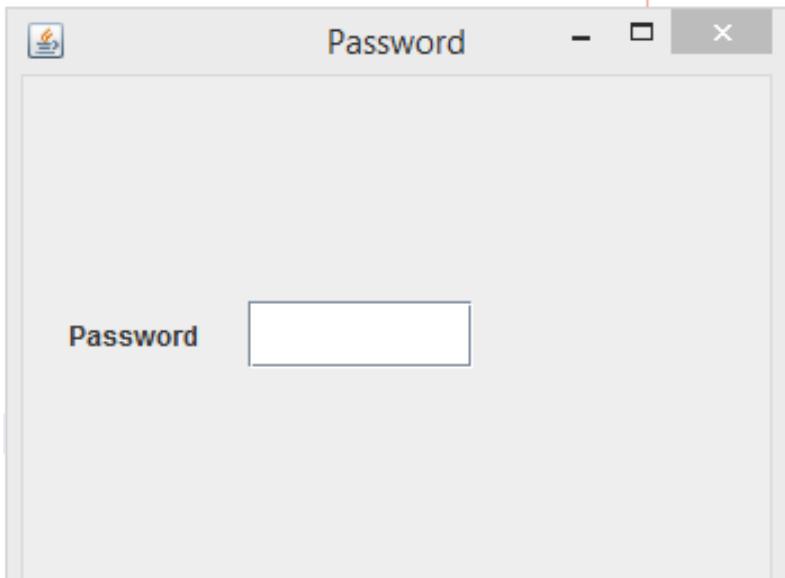
## **PROGRAM 8**

### **AIM- TO CREATE PASSWORD FIELD IN SWING.**

**CODE:**

**DATED: 31-08-2021**

```
import javax.swing.*;  
  
public class Password  
{  
    public static void main(String[] args)  
    {  
        JFrame f=new JFrame("Password");  
        JPasswordField Pf=new JPasswordField();  
        JLabel l1=new JLabel("Password");  
        l1.setBounds(20,100,80,30);  
        Pf.setBounds(100,100,100,30);  
        f.add(l1);  
        f.add(Pf);  
        f.setLayout(null);  
        f.setVisible(true);  
    }  
}
```



## PROGRAM 9

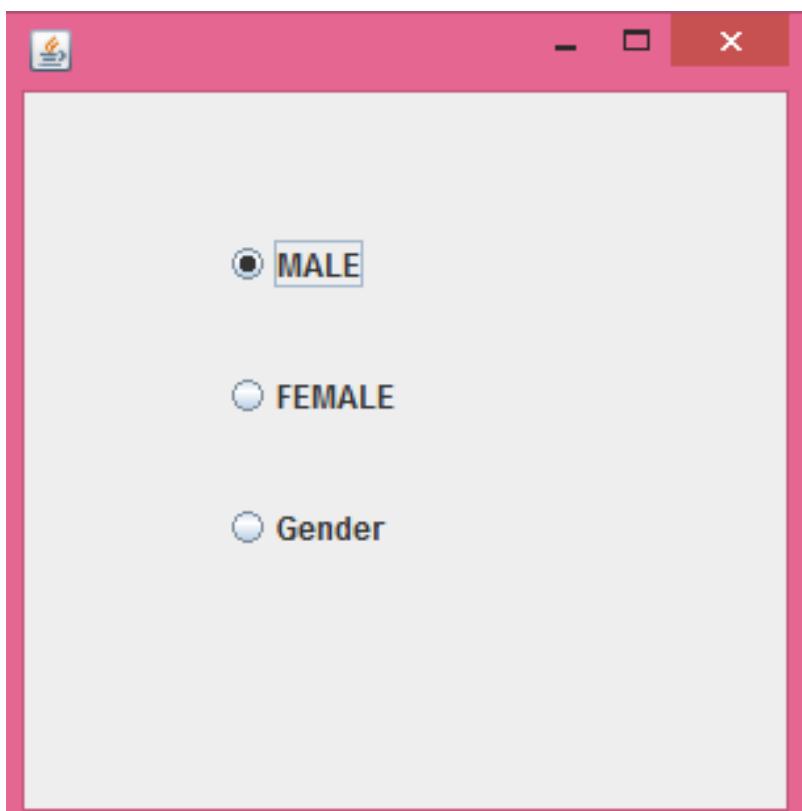
### AIM- TO CREATE A RADIobutton USING SWING.

CODE:

DATED: 14-09-2021

```
import javax.swing.*;  
  
public class Jradiobutton {  
  
    JFrame f;  
  
    Jradiobutton ()  
  
    {  
  
        f=new JFrame();  
  
        JRadioButton r1= new JRadioButton("MALE");  
  
        JRadioButton r2= new JRadioButton("FEMALE");  
  
        JRadioButton r3= new JRadioButton("Gender");  
  
        r1.setBounds(75,50,100,30);  
  
        r2.setBounds(75,100,100,30);  
  
        r3.setBounds(75,150,100,30);  
  
        ButtonGroup bg=new ButtonGroup();  
  
        bg.add(r1);  
  
        bg.add(r2);  
  
        bg.add(r3);  
  
        f.add(r1);  
  
        f.add(r2);  
  
        f.add(r3);  
  
        f.setSize(300,300);  
  
        f.setLayout(null);  
  
        f.setVisible(true);  
    }  
}
```

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



## PROGRAM 10

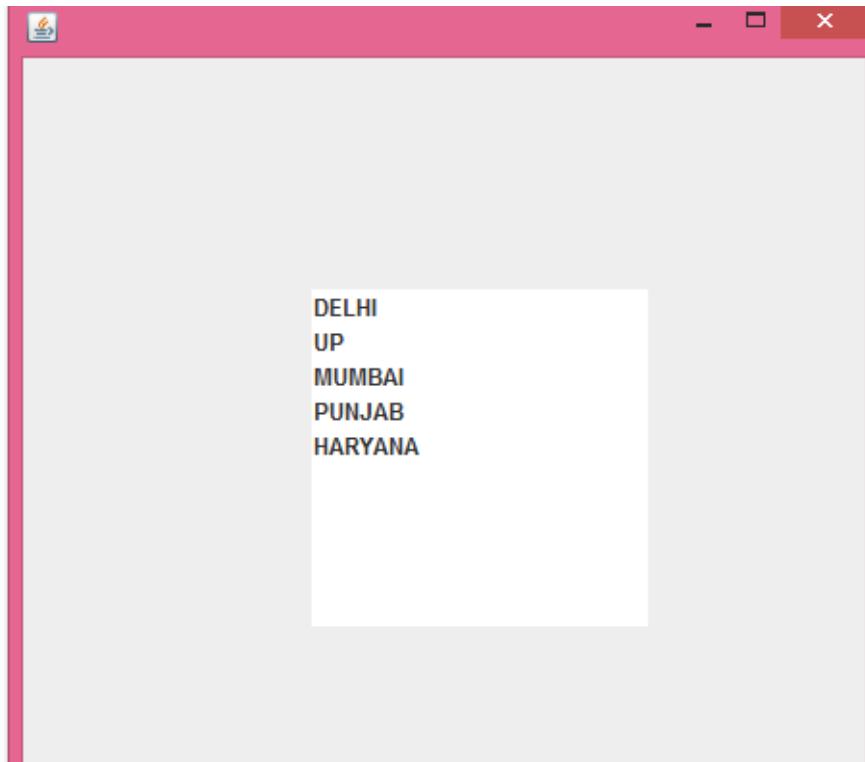
### AIM- TO CREATE LIST IN SWING.

**CODE:**

**DATED: 21-09-2021**

```
import javax.swing.*;  
  
public class list  
{  
    list ()  
    {  
        JFrame f=new JFrame();  
  
        DefaultListModel<String>l1=new DefaultListModel<>  
        ();  
  
        l1.addElement("DELHI");  
        l1.addElement("UP");  
        l1.addElement("MUMBAI");  
        l1.addElement("PUNJAB");  
        l1.addElement("HARYANA");  
  
        JList<String>list=new JList<>(l1);  
  
        list.setBounds(150,120,175,175);  
  
        f.add(list);  
  
        f.setSize(400,400);  
        f.setLayout(null);  
        f.setVisible(true);  
    }  
  
    public static void main(String args[])  
    {  
        new list ();  
    }  
}
```

}



# PROGRAM 11

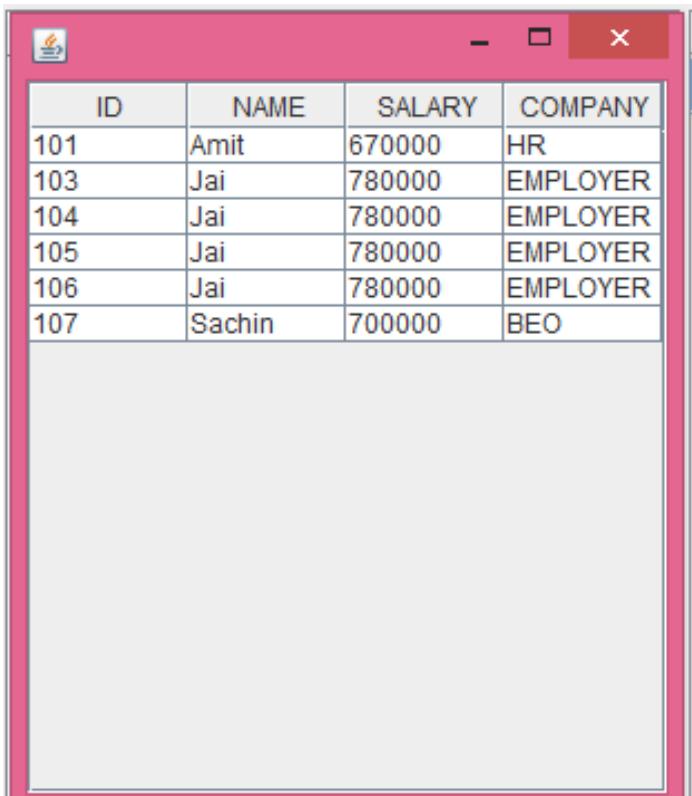
## AIM- TO CREATE TABLE IN SWING.

**CODE:**

**DATED: 29-09-2021**

```
import javax.swing.*;  
  
public class Table {  
  
    JFrame f;  
  
    Table () {  
  
        f=new JFrame ();  
  
        String data [] [] ={ {"101", "Amit", "670000", "HR"},  
                            {"103", "Jai", "780000", "EMPLOYER"},  
                            {"104", "Jai", "780000", "EMPLOYER"},  
                            {"105", "Jai", "780000", "EMPLOYER"},  
                            {"106", "Jai", "780000", "EMPLOYER"},  
  
                            {"107", "Sachin", "700000", "BEO"}};  
  
        String column[]={ "ID", "NAME", "SALARY", "COMPANY"};  
  
        JTable jt=new JTable (data,column);  
  
        jt.setBounds(30,40,200,300);  
  
        JScrollPane sp= new JScrollPane(jt);  
  
        f.add(sp);  
  
        f.setSize(300,400);  
  
        f.setVisible(true);  
    }  
  
    public static void main(String[] args){  
        new Table();  
    }  
}
```

}



A screenshot of a Windows application window titled 'Untitled'. The window contains a table with four columns: ID, NAME, SALARY, and COMPANY. The data is as follows:

ID	NAME	SALARY	COMPANY
101	Amit	670000	HR
103	Jai	780000	EMPLOYER
104	Jai	780000	EMPLOYER
105	Jai	780000	EMPLOYER
106	Jai	780000	EMPLOYER
107	Sachin	700000	BEO

## **PROGRAM 12**

### **AIM- TO CREATE A SWING USING EXCEPTION HANDLING.**

**CODE:**

**DATED: 27-10-2021**

```
import javax.swing.*;
import java.awt.event.*;
public class swingevent implements ActionListener{
JLabel l1,l2;
JTextArea area;
JButton b;
swingevent() {
    JFrame f= new JFrame();
    l1=new JLabel();
    l1.setBounds(50,25,100,30);
    l2=new JLabel();
    l2.setBounds(160,25,100,30);
    area=new JTextArea();
    area.setBounds(20,75,250,200);
    b=new JButton("No. of Words");
    b.setBounds(100,300,120,30);
    b.addActionListener(this);
    f.add(l1);
    f.add(l2);
    f.add(area);
    f.add(b);
    f.setSize(450,450);
    f.setLayout(null);
    f.setVisible(true);}
```

```
}

public void actionPerformed(ActionEvent e){

    String text=area.getText();

    String words[]=text.split("\\s");

    l1.setText("Words:"+words.length);

    l2.setText("Characters:"+text.length());

}

public static void main(String[] args){

    new swingevent();

}

}
```

