

PROGRAM TO DEMONSTRATE SWING CONCEPT IN JAVA

```
a) import javax.swing.*;

import java.awt.*;

import java.awt.event.*;

class Converter extends JFrame implements ActionListener

{

    JButton b1,b2;

    JTextField t;

    JLabel l1,l2;

    public Converter()

    {

        b1=new JButton("Celcius");

        b2=new JButton("Fahrenheit");

        t=new JTextField(10);

        l1=new JLabel("Which Unit you want to convert?");

        l2=new JLabel(" ");

        add(t);

        add(l1);

        add(b1);

        add(b2);
```

```
add(l2);

setLayout(new FlowLayout());

setSize(200,200);

setVisible(true);

setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

b1.addActionListener(this);

b2.addActionListener(this);

}

public void actionPerformed(ActionEvent e)

{

float f=Float.parseFloat(t.getText());

float x;

if(e.getSource()==b1)

{

x=(f-32)*5/9;

l2.setText("The Temprature in celcius is "+x);

}

if(e.getSource()==b2)

{

x=(f*9/5)+32;

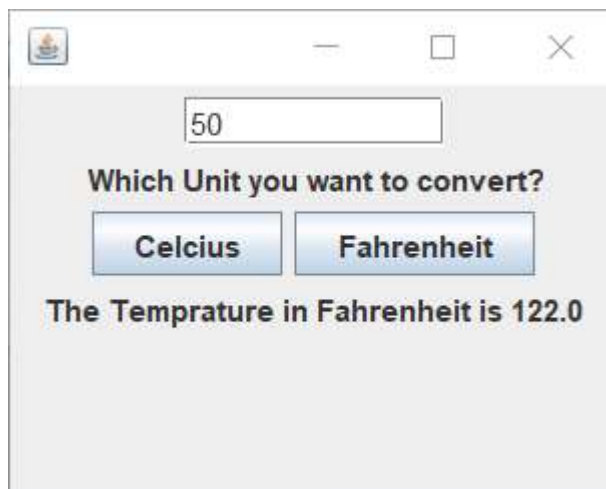
l2.setText("The Temprature in Fahrenheit is "+x);

}
```

```
}  
  
public static void main(String args[])  
{  
  
    Converter obj=new Converter();  
  
}  
  
}
```



```
Command Prompt - java Converter  
C:\Users\Laptop\Desktop>javac Converter.java  
C:\Users\Laptop\Desktop>java Converter
```



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Which Unit you want to convert?

Celcius **Fahrenheit**

The Temprature in Fahrenheit is 122.0

```
b) import javax.swing.*;

import java.awt.*;

import java.awt.event.*;

class SimpleCalculator extends JFrame implements ActionListener{

    JButton b1,b2,b3,b4;

    JTextField t1,t2;

    JLabel l;

    public SimpleCalculator()

    {

        b1=new JButton("Add");

        b2=new JButton("Sub");

        b3=new JButton("Mul");

        b4=new JButton("Div");

        b1.addActionListener(this);

        b2.addActionListener(this);

        b3.addActionListener(this);

        b4.addActionListener(this);

        setSize(270,270);

        setLayout(new FlowLayout());

        setVisible(true);
```

```
t1=new JTextField(20);
t2=new JTextField(20);
l=new JLabel("result");
add(t1);
add(t2);
add(b1);
add(b2);
add(b3);
add(b4);
add(l);
setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
}
public void actionPerformed(ActionEvent e)
{
int a=Integer.parseInt(t1.getText());
int b=Integer.parseInt(t2.getText());
int c=0;
if(e.getSource()==b1)
{
c=a+b;
}
if(e.getSource()==b2)
```

```
{  
c=a-b;  
}  
if(e.getSource()==b3)  
{  
c=a*b;  
}  
if(e.getSource()==b4)  
{  
c=a/b;  
}  
l.setText(" "+c);  
}  
public static void main(String args[])  
{  
SimpleCalculator ob=new SimpleCalculator();  
}  
}
```



```
Command Prompt - java SimpleCalculator  
C:\Users\Laptop\Desktop>javac SimpleCalculator.java  
C:\Users\Laptop\Desktop>java SimpleCalculator
```



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Add

Sub

Mul

Div

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