PRACTICAL-4

AIM: Create a temperature converter Application. (Fahrenheit-Celsius)

Activity_temp__main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout height="match parent"
  tools:context="com.example.administrator.temp_controller.temp_MainActivity"
  tools:layout editor absoluteY="81dp">
  <RadioGroup
    android:id="@+id/radioGroup1"
    android:layout_width="match_parent"
    android:layout_height="wrap_content" >
  <RadioButton
    android:id="@+id/cel"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="33dp"
    android:layout_marginTop="46dp"
    android:text="cel" />
  <RadioButton
    android:id="@+id/fah"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:layout_below="@+id/cel"
    android:layout marginLeft="33dp"
    android:text="fah" />
  </RadioGroup>
  <EditText
    android:id="@+id/text"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout below="@+id/fah"
    android:layout_marginBottom="49dp"
    android:layout_marginStart="48dp"
    android:ems="10"
```

```
android:hint="enter value"
android:inputType="number" />

<Button
android:id="@+id/button"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginBottom="278dp"
android:layout_marginStart="124dp"
android:layout_below="@+id/text"
android:text="convert" />
</RelativeLayout>
```

Calculator.java

```
package com.example.administrator.temp_controller;
    import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.view.View;
    import android.widget.Button;
    import android.widget.EditText;
import android.widget.RadioButton;
public class temp_MainActivity extends AppCompatActivity
 EditText text:
 Button btnl;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_temp__main);
    text = (EditText) findViewById(R.id.text);
    btnl = findViewById(R.id.button);
    btnl.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View v) {
         RadioButton cel=(RadioButton) findViewById(R.id.cel);
         RadioButton fah=(RadioButton) findViewById(R.id.fah);
         float input=Float.parseFloat(text.getText().toString());
```

```
if(cel.isChecked())
{
    text.setText(String.valueOf(f_2_c(input)));
    cel.setChecked(false);
    fah.setChecked(false);
}
else
{
    text.setText(String.valueOf(c_2_f(input)));
    cel.setChecked(false);
    fah.setChecked(false);
}
});
}

public float f_2_c(float f)
{
    return((f-32)*5/9);
}

public float c_2_f(float c)
{
    return((c*9)/5+32);
}
```

OUTPUT:



Conclusion:

We successfully completed creating temperature converter Application. (Fahrenheit-Celsius)