

JAVA CODE –

```
package com.example.temperatureconverter;
```

```
import static android.os.Build.VERSION_CODES.R;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import android.widget.Button;
```

```
import android.widget.EditText;
```

```
import android.widget.TextView;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    private Button cToF,fToC;
```

```
    private TextView result;
```

```
    private EditText enterTemp;
```

```
    double result0;
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);
```

```
        cToF=findViewById(R.id.cToF);
```

```
        fToC=findViewById(R.id.fToC);
```

```
        result=findViewById(R.id.result);
```

```
        enterTemp=findViewById(R.id.enterTemp);
```

```
        cToF.setOnClickListener(new View.OnClickListener()
```

```
        {
```

```

@Override

public void onClick(View v){

    double temp = Double.parseDouble(enterTemp.getText().toString());

    result0 = (temp * 1.8) + 32;

    result.setText(String.valueOf(result0));

}

});

```

```

fToC.setOnClickListener(new View.OnClickListener()

{

    @Override

    public void onClick(View v){

        double temp = Double.parseDouble(enterTemp.getText().toString());

        result0 =(temp - 32) /1.8;

        result.setText(String.valueOf(result0));

    }

});

}

}

```

XML CODE –

```

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

    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"

    android:orientation="vertical"

    android:background="@color/purple_200"

    tools:context=".MainActivity">

    <TextView

```

```
    android:id="@+id/textView"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Temperature Converter "
    android:textSize="30dp"
    android:textColor="@color/white"
    android:textAlignment="center"
    android:layout_marginTop="30dp"
```

```
<EditText
```

```
    android:id="@+id/enterTemp"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:ems="10"
    android:inputType="numberDecimal"
    android:hint="Enter Temperature"
    android:layout_gravity="center"
    android:textAlignment="center"
    android:textSize="25dp"/>
```

```
<Button
```

```
    android:id="@+id/cToF"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Celcius to Fahrenhiet"
    android:textAlignment="center"
    android:textSize="25dp"
    android:layout_gravity="center"
    android:layout_marginTop="25dp"
    android:textAllCaps="false"
    />
```

```
<Button
```

```
    android:id="@+id/fToC"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Fahrenhiet to Celcius"
    android:textAlignment="center"
    android:textSize="25dp"
    android:layout_gravity="center"
    android:layout_marginTop="25dp"
    android:textAllCaps="false"
/>
```

```
<TextView
    android:id="@+id/result"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="0 Degree"
    android:textAlignment="center"
    android:textSize="25dp"
    android:layout_gravity="center"
    android:layout_marginTop="25dp"

/>
```

```
</LinearLayout>
```