

# TEMPERATURE CONVERTER

Mobile App Development.  
CSE4002.  
SLOT: L3+L4.

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## MainActivity.java:

```
package com.example.temperatureconverter;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import android.widget.ToggleButton;

public class MainActivity extends AppCompatActivity {

    Button b1;
    EditText et;
    ToggleButton tb;
    Double a;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

```

et=(EditText) findViewById(R.id.editText);
b1=(Button) findViewById(R.id.button);
tb=(ToggleButton) findViewById(R.id.toggleButton);

b1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {

        if(et.getText().toString().isEmpty())
        {
            Toast.makeText(MainActivity.this,"Please enter the
temperature",Toast.LENGTH_SHORT).show();
        }

        else if(tb.isChecked())
        {
            a=Double.parseDouble(String.valueOf(et.getText()));
            Double b=a*9/5+32;
            String r=String.valueOf(b);
            Toast.makeText(MainActivity.this,r+"°F",Toast.LENGTH_SHORT).show();
        }

        else
        {
            a=Double.parseDouble(String.valueOf(et.getText()));
            Double b=a-32;
            Double c=b*5/9;
            String r=String.valueOf(c);
            Toast.makeText(MainActivity.this,r+"°C",Toast.LENGTH_SHORT).show();
        }
    }
});
}

```

## activity\_main.xml:

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/activity_main"
    android:layout_width="match_parent"

```

```
android:layout_height="match_parent"
>
```

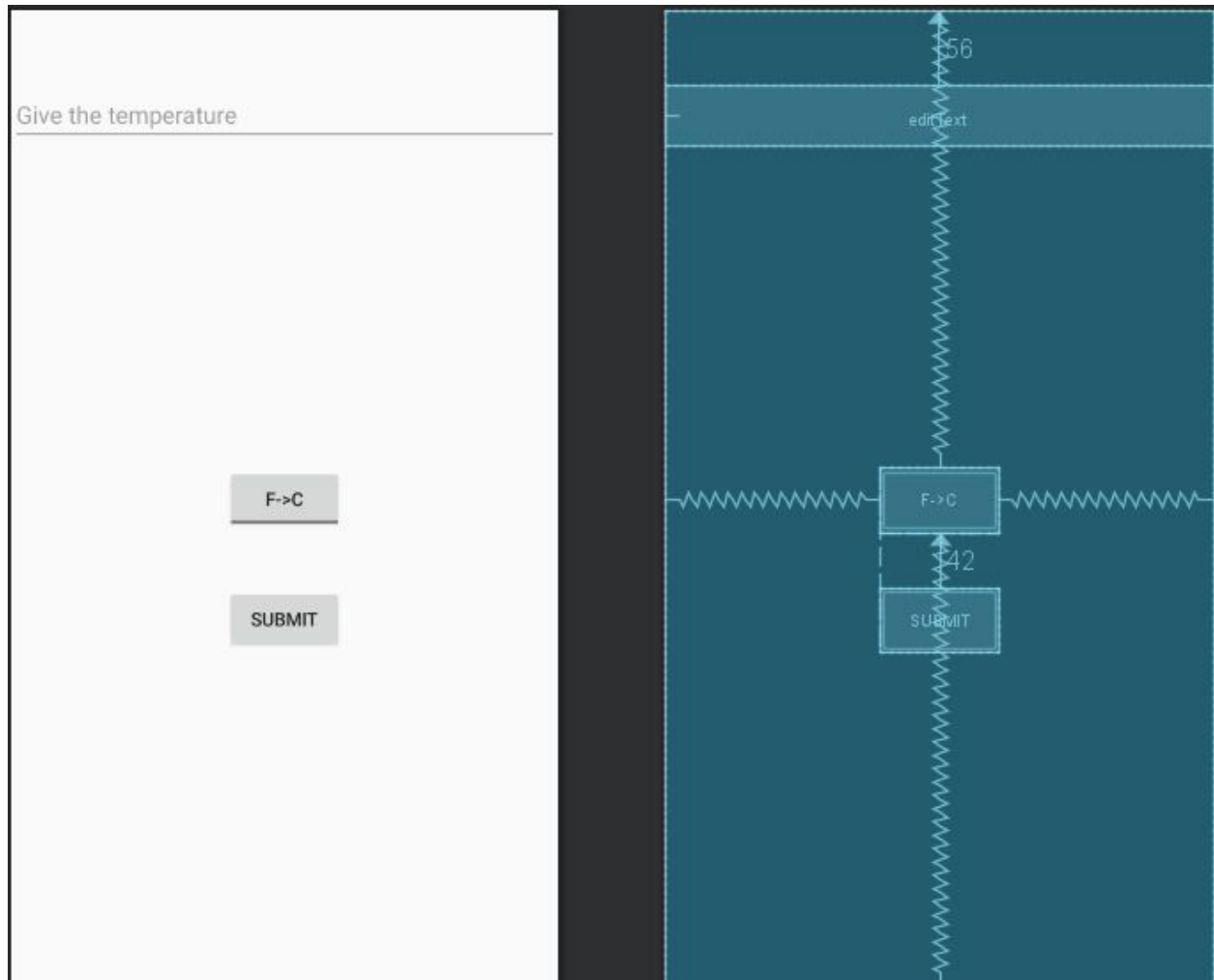
```
<ToggleButton
android:text="Convert"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_centerVertical="true"
android:layout_centerHorizontal="true"
android:id="@+id/toggleButton"
android:textOn="C->F"
android:textOff="F->C"/>
```

```
<EditText
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:inputType="numberDecimal|numberSigned"
android:hint="Give the temperature"
android:ems="10"
android:layout_alignParentTop="true"
android:layout_centerHorizontal="true"
android:layout_marginTop="56dp"
android:id="@+id/editText" />
```

```
<Button
android:text="Submit"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_below="@+id/toggleButton"
android:layout_alignStart="@+id/toggleButton"
android:layout_marginTop="42dp"
android:id="@+id/button" />
```

```
</RelativeLayout>
```

## App Design and Blueprint:



## OUTPUT:

Temperature Converter	Temperature Converter
36.2	98.6
C->F	F->C
SUBMIT	SUBMIT
97.16°F	37.0°C