**Create activity\_main.xml**

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:gravity="center\_horizontal"

android:padding="16dp">

<EditText

android:id="@+id/amountEditText"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Enter amount"

android:inputType="numberDecimal"

android:gravity="center"/>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal"

android:gravity="center"

android:layout\_marginTop="16dp">

<Button

android:id="@+id/button15"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="15%" />

<Button

android:id="@+id/button18"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="18%"

android:layout\_marginStart="16dp"

android:layout\_marginEnd="16dp"/>

<Button

android:id="@+id/button20"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="20%" />

</LinearLayout>

<TextView

android:id="@+id/resultTextView"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Tip: $0.00, Total Bill: $0.00"

android:layout\_marginTop="16dp"

android:gravity="center"/>

</LinearLayout>

**Create MainActivity.java**

package com.example.tipcalculator;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

private EditText amountEditText;

private TextView resultTextView;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

amountEditText = findViewById(R.id.amountEditText);

resultTextView = findViewById(R.id.resultTextView);

Button button15 = findViewById(R.id.button15);

Button button18 = findViewById(R.id.button18);

Button button20 = findViewById(R.id.button20);

button15.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

calculateTip(0.15);

}

});

button18.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

calculateTip(0.18);

}

});

button20.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

calculateTip(0.20);

}

});

}

private void calculateTip(double percentage) {

String amountText = amountEditText.getText().toString();

if (!amountText.isEmpty()) {

double amount = Double.parseDouble(amountText);

double tip = amount \* percentage;

double total = amount + tip;

resultTextView.setText(String.format("Tip: $%.2f, Total Bill: $%.2f", tip, total));

}

}

}