Program 1: Simple calculator

Xml file

```
<LinearLayout
       <EditText
            android:inputType="numberDecimal">
       </EditText>
       <EditText
       </EditText>
   </LinearLayout>
   <LinearLayout
            android:textSize="8pt"
       </Button>
       </Button>
```

Java file

```
package com.example.calcapp;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.text.TextUtils;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity implements
View.OnClickListener{

    EditText etNum1;
    EditText etNum2;

    Button btnAdd;
    Button btnSub;
    Button btnMult;
    Button btnDiv;

    TextView tvResult;

    String oper = "";

    /** Called when the activity is first created. */
    @Override
```

```
public void onCreate(Bundle savedInstanceState) {
     etNum1 = (EditText) findViewById(R.id.etNum1);
etNum2 = (EditText) findViewById(R.id.etNum2);
    btnAdd = (Button) findViewById(R.id.btnAdd);
btnSub = (Button) findViewById(R.id.btnSub);
    btnAdd.setOnClickListener(this);
     if (TextUtils.isEmpty(etNum1.getText().toString())
     num1 = Float.parseFloat(etNum1.getText().toString());
```

```
break;
}

// form the output line
    tvResult.setText(num1 + " " + oper + " " + num2 + " = " + result);
}
```

