Program 1. Create a Simple Calculator for demonstrating the basic arithmetic operations (+,-,*,/)

XML File

```
<LinearLayout
<LinearLayout
android:layout marginRight="10pt"
<EditText
android: layout_marginRight="5pt"
android:id="@+id/etNum1"
android:inputType="numberI
</EditText>
<EditText
android:id="@+id/etNum2"
android:inputType="numberDe
</EditText>
</LinearLayout>
<LinearLayout
android:layout height="wrap content"
android:layout marginTop="3pt"
android:layout_width="match parent
android:text="+"
android:id="@+id/btn?
</Button>
android:layout weight="1" android:text="-"
android:textSize=
```

```
android:id="@+id/btnSub"> </Button>
 <Button
android:layout_width="match_parent"
android:layout_weight="1" android:text="*"
 android:textSize="8pt"
 android:id="@+id/btnMult"> </Button>
 <Button
 android:layout height="wrap content"
android:layout_width="match_parent"
android:layout_weight="1" android:text="/"
 android:textSize="8pt"
 android:id="@+id/btnDiv"> </Button>
 </LinearLayout>
 <TextView
android:layout_width="match parent"
android:layout_marginLeft="5pt"
android:textSize="12pt"
android:layout marginTop="3pt"
android:id="@+id/tvResult"
android:gravity="center horizontal"
android:layout_weight="0.07"> </TextView>
</androidx.constraintlayout.widget.ConstraintLayout>
JAVA File
package com.example.calculator;
import androidx.appcompat.app.AppCompatActivity;
 .mport android.text.TextUtils;
 .mport android.view.View;
 .mport android.widget.Button;
View.OnClickListener(
 Button btnSub;
Override
```

void onCreate(Bundle savedInstanceState) {

```
super.onCreate(savedInstanceState);
 setContentView(R.layout.activity main);
   find the elements
etNum1 = (EditText) findViewById(R.id.etNum1); etNum2
= (EditText) findViewById(R.id.etNum2);
btnAdd = (Button) findViewById(R.id.btnAdd); btnSub =
(Button) findViewById(R.id.btnSub); btnMult = (Button)
findViewById(R.id.btnMult); btnDiv = (Button)
findViewById(R.id.btnDiv);
tvResult = (TextView) findViewById(R.id.tvResult);
 btnAdd.setOnClickListener(this);
 btnMult.setOnClickListener(this);
btnDiv.setOnClickListener(this);
}
@Override
 public void onClick(View v) {
 // TODO Auto-generated method stub
 float num1 = 0;
 float result = 0;
 if (TextUtils.isEmpty(etNum1.getText().toString()) ||
TextUtils.isEmpty(etNum2.getText().toString())) {
    return;
 // read EditText and fill variables with numbers num1 =
Float.parseFloat(etNum1.getText().toString());    num2 =
Float.parseFloat(etNum2.getText().toString());
 // defines the button that has been clicked and performs the
corresponding operation
(v.getId()) {
 case R.id.btnAdd:
 oper = "+";
 break;
 case R.id.btnSub:
 oper = "-";
 result = num1 - num2;
 break;
 case R.id.btnMult:
 oper = "*";
 break;
case R.id.btnDiv:
 oper = "/";
break;
break;
 // form the output line
 tvResult.setText(num1 + " " + oper + " " + num2 + " = " + result); }
```

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```

