

```

MainActivity.java
package com.indran.mcarit.calculator;

import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

    private double n1 = 0, n2 = 0, result = 0;
    private char opr = ' ';

    TextView resul;

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

        resul = (TextView) findViewById(R.id.op);
    }

    public void bT7(View view) {
        resul.setText( resul.getText() + "7");
    }

    public void bT8(View view) {
        resul.setText( resul.getText() + "8");
    }

    public void bT9(View view) {
        resul.setText( resul.getText() + "9");
    }

    public void bTi(View view) {

        doOperat( '/');

    }

    public void bT4(View view) {
        resul.setText( resul.getText() + "4");
    }

    public void bT5(View view) {
        resul.setText( resul.getText() + "5");
    }
}

```

```

public void bT6(View view) {
    resul.setText( resul.getText() + "6");
}

public void bTp(View view) {

    doOperat('*');
}

public void bT1(View view) {
    resul.setText( resul.getText() + "1");
}

public void bT2(View view) {
    resul.setText( resul.getText() + "2");
}

public void bT3(View view) {
    resul.setText( resul.getText() + "3");
}

public void bTs(View view) {

    doOperat('-');
}

public void bTd(View view) {
    resul.setText( resul.getText() + ".");
}

public void bT0(View view) {
    resul.setText( resul.getText() + "0");
}

public void bTe(View view) {
    doAction();
}

public void bTa(View view) {

    doOperat('+');
}

public void bBcc(View view) {
    try {
        String t = String.valueOf(resul.getText());
        System.out.println(t.substring(0, t.length() - 1 ));
        resul.setText( t.substring(0, t.length() - 1 ) );
    }catch (Exception e) {

```

```
    }  
}
```

```
public void bBzz(View view) {
```

```
    opr = ' ';  
    n1 = 0;  
    n2 = 0;  
    resul.setText("0");  
}
```

```
private void doOperat(char op){
```

```
    String t = String.valueOf(resul.getText());
```

```
    if(opr == ' ') {
```

```
        opr = op;  
        try {  
            if(t.charAt(t.length() - 1) == '.')  
                t = t + '0';  
            n1 = Double.parseDouble(t);  
        }catch (Exception e) {  
  
        }  
    }
```

```
    }else {
```

```
        try {  
            if(t.charAt(t.length() - 1) == '.')  
                t = t + '0';  
            n2 = Double.parseDouble(t);  
        }catch (Exception e) {  
  
        }  
    }
```

```
    doAction();  
    opr = op;
```

```
    t = String.valueOf(resul.getText());
```

```
    try {  
        if(t.charAt(t.length() - 1) == '.')  
            t = t + '0';  
    }
```

```
        n1 = Double.parseDouble(t);
    }catch (Exception e) {

    }
}
```

```
    resul.setText("");
```

```
    }
    private void doAction() {
        String t = String.valueOf(resul.getText());
```

```
        try {

            if(t.charAt(t.length() - 1) == '.')
                t = t + '0';
            n2 = Double.parseDouble(t);
```

```
        } catch (Exception e) {

        }
    }
```

```
    double res = 0;
```

```
    switch (opr) {
        case '+':
            res = n1 + n2;
            break;
        case '-':
            res = n1 - n2;
            break;
```

```
        case '*':
            res = n1 * n2;
            break;
```

```
        case '/':
            res = n1 / n2;
            break;
```

```
        default:
```

```
    }
```

```

        resul.setText(String.valueOf(res));
        opr = ' ';
        n1 = 0;
        n2 = 0;

    }

}

```

activity\_main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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"
    tools:context="com.indran.mcarit.calculator.MainActivity">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_alignParentLeft="true"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:orientation="vertical"
        android:padding="10dp">

        <TextView
            android:id="@+id/op"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:ems="10"
            android:inputType="number"
            android:text=""
            android:textSize="40dp"
            android:textAlignment="textEnd"
            tools:ignore="RtlCompat"
            android:paddingTop="40dp" />

    <LinearLayout
        android:layout_width="match_parent"

```

```
android:layout_height="wrap_content"
android:orientation="horizontal">
```

```
<Button
    android:id="@+id/bcc"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="C"
    android:onClick="bBcc"/>
```

```
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="0"
    android:id="@+id/bzz"
    android:onClick="bBzz"/>
```

```
</LinearLayout>
```

```
<TableLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent" >
```

```
<TableRow
    android:layout_width="match_parent"
    android:layout_height="match_parent">
```

```
<Button
    android:id="@+id/b7"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:text="7"
```

```
    android:padding="30dp"
    android:onClick="bT7"/>
```

```
<Button
    android:id="@+id/b8"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:text="8"
    android:onClick="bT8"/>
```

```
<Button
```

```
android:id="@+id/b9"  
android:layout_width="match_parent"  
android:layout_height="match_parent"  
android:text="9"  
android:onClick="bT9" />
```

```
<Button  
    android:id="@+id/bdi"  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    android:text="/"   
    android:onClick="bTi"/>
```

```
</TableRow>
```

```
<TableRow  
    android:layout_width="match_parent"  
    android:layout_height="match_parent">
```

```
<Button  
    android:id="@+id/b4"  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    android:text="4"  
    android:padding="30dp"  
    android:onClick="bT4"/>
```

```
<Button  
    android:id="@+id/b5"  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    android:text="5"  
    android:onClick="bT5" />
```

```
<Button  
    android:id="@+id/b6"  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    android:text="6"  
    android:onClick="bT6"/>
```

```
<Button  
    android:id="@+id/bp"  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    android:text="*"   
    android:onClick="bTp" />
```

```
</TableRow>
```

```
<TableRow  
    android:layout_width="match_parent"  
    android:layout_height="match_parent">
```

```
    <Button  
        android:id="@+id/b1"  
        android:layout_width="match_parent"  
        android:layout_height="match_parent"  
        android:text="1"  
        android:padding="30dp"  
        android:onClick="bT1" />
```

```
    <Button  
        android:id="@+id/b2"  
        android:layout_width="match_parent"  
        android:layout_height="match_parent"  
        android:text="2"  
        android:onClick="bT2" />
```

```
    <Button  
        android:id="@+id/b3"  
        android:layout_width="match_parent"  
        android:layout_height="match_parent"  
        android:text="3"  
        android:onClick="bT3" />
```

```
    <Button  
        android:id="@+id/bs"  
        android:layout_width="match_parent"  
        android:layout_height="match_parent"  
        android:text="-"  
        android:onClick="bTs" />
```

```
</TableRow>
```

```
<TableRow  
    android:layout_width="match_parent"  
    android:layout_height="match_parent">
```

```
    <Button  
        android:id="@+id/bd"  
        android:layout_width="match_parent"  
        android:layout_height="match_parent"  
        android:text="."  
        android:padding="30dp"
```



```
android:onClick="bTd" />
```

```
<Button  
    android:id="@+id/b0"  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    android:text="0"  
    android:onClick="bT0" />
```

```
<Button  
    android:id="@+id/be"  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    android:text=""  
    android:onClick="bTe" />
```

```
<Button  
    android:id="@+id/ba"  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    android:text="+"  
    android:onClick="bTa"/>
```

```
</TableRow>
```

```
</TableLayout>
```

```
</LinearLayout>
```

```
</RelativeLayout>
```

MainActivity.java

```
package com.indran.mcarit.calculator;

import android.view.View;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

    private double n1 = 0, n2 = 0 ;
    private char opr = ' ';

    TextView resul;

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

        resul = (TextView) findViewById(R.id.op);
    }

    public void bT7(View view) {
        resul.setText( resul.getText() + "7");
    }

    public void bT8(View view) {
        resul.setText( resul.getText() + "8");
    }

    public void bT9(View view) {
        resul.setText( resul.getText() + "9");
    }

    public void bTi(View view) {
        doOperat( '/');
    }

    public void bT4(View view) {
        resul.setText( resul.getText() + "4");
    }

    public void bT5(View view) {
        resul.setText( resul.getText() + "5");
    }

    public void bT6(View view) {
        resul.setText( resul.getText() + "6");
    }
}
```

```
public void bTp(View view) {
```

```
    doOperat('*');  
}
```

```
public void bT1(View view) {  
    resul.setText( resul.getText() + "1");  
}
```

```
public void bT2(View view) {  
    resul.setText( resul.getText() + "2");  
}
```

```
public void bT3(View view) {  
    resul.setText( resul.getText() + "3");  
}
```

```
public void bTs(View view) {
```

```
    doOperat('-');  
}
```

```
public void bTd(View view) {  
    resul.setText( resul.getText() + ".");  
}
```

```
public void bT0(View view) {  
    resul.setText( resul.getText() + "0");  
}
```

```
public void bTe(View view) {  
    doAction();  
}
```

```
public void bTa(View view) {
```

```
    doOperat('+');  
}
```

```
public void bBcc(View view) {  
    try {  
        String t = String.valueOf(resul.getText());  
        System.out.println(t.substring(0, t.length() - 1 ));  
        resul.setText( t.substring(0, t.length() - 1 ));  
    }catch (Exception e) {
```

```
    }  
}
```

```
public void bBzz(View view) {
```

```
    opr = ' ';  
    n1 = 0;  
    n2 = 0;  
    resul.setText("0");  
}
```

```
private void doOperat(char op){
```

```
    String t = String.valueOf(resul.getText());
```

```
    if(opr == ' ') {
```

```
        opr = op;  
        try {  
            n1 = Double.parseDouble(t);  
        }catch (Exception e) {
```

```
        }
```

```
    }else {
```

```
        try {  
            n2 = Double.parseDouble(t);  
        }catch (Exception e) {
```

```
        }
```

```
        doAction();  
        opr = op;
```

```
        t = String.valueOf(resul.getText());
```

```
        try {  
            n1 = Double.parseDouble(t);  
        }catch (Exception e) {
```

```
        }
```

```
    }
```

```
    resul.setText("");
```

```
}
```

```
private void doAction() {
```

```
    String t = String.valueOf(resul.getText());
```

```
    try {
```

```
        n2 = Double.parseDouble(t);
```

```
    } catch (Exception e) {
```

```
    }
```

```
    double res = 0;
```

```
    switch (opr) {
```

```
        case '+':
```

```
            res = n1 + n2;
```

```
            break;
```

```
        case '-':
```

```
            res = n1 - n2;
```

```
            break;
```

```
        case '*':
```

```
            res = n1 * n2;
```

```
            break;
```

```
        case '/':
```

```
            res = n1 / n2;
```

```
            break;
```

```
        default:
```

```
    }
```

```
    resul.setText(String.valueOf(res));
```

```
    opr = ' ';
```

```
    n1 = 0;
```

```
    n2 = 0;
```

```
}
```

```
}
```

activity\_main.xml

```
<RelativeLayout  
    tools:context="com.indran.mcarit.calculator.MainActivity">
```

```
<LinearLayout >
```

```
<TextView android:id="@+id/op" />
```

```
<LinearLayout >
```

```
<Button android:id="@+id/bcc"  
    android:text="C"  
    android:onClick="bBcc"/>  
<Button  
    android:text="0"  
    android:id="@+id/bzz"  
    android:onClick="bBzz"/>
```

```
</LinearLayout>
```

```
<TableLayout >
```

```
<TableRow >
```

```
<Button  
    android:id="@+id/b7"  
    android:text="7"  
    android:onClick="bT7"/>
```

```
<Button  
    android:id="@+id/b8"  
    android:text="8"  
    android:onClick="bT8"/>
```

```
<Button  
    android:id="@+id/b9"  
    android:text="9"  
    android:onClick="bT9" />
```

```
<Button  
    android:id="@+id/bdi"  
    android:text="/"   
    android:onClick="bTi"/>
```

```
</TableRow>
```

```
<TableRow >
```

```
<Button  
    android:id="@+id/b4"  
    android:text="4"  
    android:onClick="bT4"/>
```

```
<Button  
    android:id="@+id/b5"  
    android:text="5"  
    android:onClick="bT5" />
```

```
<Button  
    android:id="@+id/b6"  
    android:text="6"  
    android:onClick="bT6"/>
```

```
<Button  
    android:id="@+id/bp"  
    android:text="*"   
    android:onClick="bTp" />
```

```
</TableRow>
```

```
<TableRow  
    android:layout_width="match_parent"  
    android:layout_height="match_parent">
```

```
<Button  
    android:id="@+id/b1"  
    android:text="1"  
    android:onClick="bT1" />
```

```
<Button  
    android:id="@+id/b2"  
    android:text="2"  
    android:onClick="bT2" />
```

```
<Button  
    android:id="@+id/b3"  
    android:text="3"  
    android:onClick="bT3" />
```

```
<Button
```

```
        android:id="@+id/bs"  
        android:text="-"  
        android:onClick="bTs" />
```

```
</TableRow>
```

```
<TableRow
```

```
    <Button  
        android:id="@+id/bd"  
        android:text="."  
        android:onClick="bTd" />
```

```
    <Button  
        android:id="@+id/b0"  
        android:text="0"  
        android:onClick="bT0" />
```

```
    <Button  
        android:id="@+id/be"  
        android:text="="  
        android:onClick="bTe" />
```

```
    <Button  
        android:id="@+id/ba"  
        android:text="+"  
        android:onClick="bTa"/>
```

```
</TableRow>
```

```
</TableLayout>
```

```
</LinearLayout>
```

```
</RelativeLayout>
```



# Calculator

C

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