

**MAIN.XML**

```

<?xml version="1.0" encoding="utf-8"?>
<selector xmlns:android="http://schemas.android.com/apk/res/android">
  <item android:state_pressed="false"
        android:state_focused="false">
    <shape
        xmlns:android="http://schemas.android.com/apk/res/android"
        android:shape="rectangle"
        android:useLevel="false">

        <solid android:color="@color/btn_clr"/>

        <padding
            android:left="5dp"
            android:top="5dp"
            android:right="3dp"
            android:bottom="3dp"/>
    </shape>
  </item>

  <item android:state_pressed="false"
        android:state_focused="true">
    <shape
        xmlns:android="http://schemas.android.com/apk/res/android"
        android:shape="rectangle"
        android:useLevel="false">
        <solid android:color="@color/selected"/>

        <padding
            android:left="5dp"
            android:top="5dp"
            android:right="3dp"
            android:bottom="3dp"/>
    </shape>
  </item>

  <item android:state_pressed="true"
        android:state_focused="false">
    <shape
        xmlns:android="http://schemas.android.com/apk/res/android"
        android:shape="rectangle"
        android:useLevel="false">

        <solid android:color="@color/selected"/>

        <padding
            android:left="5dp"
            android:top="5dp"
            android:right="3dp"
            android:bottom="3dp"/>
    </shape>
  </item>
</selector>

```

&lt;/selector&gt;

**MAINT.KT**

```

package com.DataFlair.mycalculator;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

    double in1 = 0, i2 = 0;
    TextView edittext1;
    boolean Add, Sub, Multiply, Divide, Remainder, deci;
    Button button_0, button_1, button_2, button_3, button_4, button_5,
button_6, button_7, button_8, button_9, button_Add, button_Sub,
        button_Mul, button_Div, button_Equ, button_Del, button_Dot,
button_Remainder;

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

        button_0 = (Button) findViewById(R.id.b0);
        button_1 = (Button) findViewById(R.id.b1);
        button_2 = (Button) findViewById(R.id.b2);
        button_3 = (Button) findViewById(R.id.b3);
        button_4 = (Button) findViewById(R.id.b4);
        button_5 = (Button) findViewById(R.id.b5);
        button_6 = (Button) findViewById(R.id.b6);
        button_7 = (Button) findViewById(R.id.b7);
        button_8 = (Button) findViewById(R.id.b8);
        button_9 = (Button) findViewById(R.id.b9);
        button_Dot = (Button) findViewById(R.id.bDot);
        button_Add = (Button) findViewById(R.id.badd);
        button_Sub = (Button) findViewById(R.id.bsub);
        button_Mul = (Button) findViewById(R.id.bmul);
        button_Div = (Button) findViewById(R.id.biv);
        button_Remainder = (Button) findViewById(R.id.BRemain);
        button_Del = (Button) findViewById(R.id.buttonDel);
        button_Equ = (Button) findViewById(R.id.buttoneq1);

        edittext1 = (TextView) findViewById(R.id.display);

        button_1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                edittext1.setText(edittext1.getText() + "1");
            }
        })
    }
}

```

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});  
  
button_2.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        editText1.setText(editText1.getText() + "2");  
    }  
});  
  
button_3.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        editText1.setText(editText1.getText() + "3");  
    }  
});  
  
button_4.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        editText1.setText(editText1.getText() + "4");  
    }  
});  
  
button_5.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        editText1.setText(editText1.getText() + "5");  
    }  
});  
  
button_6.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        editText1.setText(editText1.getText() + "6");  
    }  
});  
  
button_7.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        editText1.setText(editText1.getText() + "7");  
    }  
});  
  
button_8.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        editText1.setText(editText1.getText() + "8");  
    }  
});  
  
button_9.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        editText1.setText(editText1.getText() + "9");  
    }  
});
```

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button_0.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        editText1.setText(editText1.getText() + "0");
    }
});

button_Add.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        if (editText1.getText().length() != 0) {
            in1 = Float.parseFloat(editText1.getText() + "");
            Add = true;
            deci = false;
            editText1.setText(null);
        }
    }
});

button_Sub.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        if (editText1.getText().length() != 0) {
            in1 = Float.parseFloat(editText1.getText() + "");
            Sub = true;
            deci = false;
            editText1.setText(null);
        }
    }
});

button_Mul.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        if (editText1.getText().length() != 0) {
            in1 = Float.parseFloat(editText1.getText() + "");
            Multiply = true;
            deci = false;
            editText1.setText(null);
        }
    }
});

button_Div.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        if (editText1.getText().length() != 0) {
            in1 = Float.parseFloat(editText1.getText() + "");
            Divide = true;
            deci = false;
            editText1.setText(null);
        }
    }
});

button_Remainder.setOnClickListener(new View.OnClickListener() {

```

```

        @Override
        public void onClick(View v) {
            if (edittext1.getText().length() != 0) {
                in1 = Float.parseFloat(edittext1.getText() + "");
                Remainder = true;
                deci = false;
                edittext1.setText(null);
            }
        }
    });

    button_Equ.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            if (Add || Sub || Multiply || Divide || Remainder) {
                i2 = Float.parseFloat(edittext1.getText() + "");
            }

            if (Add) {
                edittext1.setText(in1 + i2 + "");
                Add = false;
            }

            if (Sub) {
                edittext1.setText(in1 - i2 + "");
                Sub = false;
            }

            if (Multiply) {
                edittext1.setText(in1 * i2 + "");
                Multiply = false;
            }

            if (Divide) {
                edittext1.setText(in1 / i2 + "");
                Divide = false;
            }

            if (Remainder) {
                edittext1.setText(in1 % i2 + "");
                Remainder = false;
            }
        }
    });

    button_Del.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            edittext1.setText("");
            in1 = 0.0;
            i2 = 0.0;
        }
    });

    button_Dot.setOnClickListener(new View.OnClickListener() {
        @Override

```

```
        public void onClick(View v) {
            if (deci) {
                //do nothing or you can show the error
            } else {
                edittext1.setText(edittext1.getText() + ".");
                deci = true;
            }
        }
    });
}
```

## MANIFEST.XML

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.DataFlair.mycalculator">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/AppTheme">
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>

</manifest>
```