Android Assignment

Calculator Application



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Android Assignment

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Q] Create an Android Calculator app for basic arithmetic calculations .(Use of decimal no will be an added advantage). The layout should resemble the general calculator app available in Android phones.

Code:

Ui:



MainActivity.java file:

```
package com.example.mycalculator;
import androidx.appcompat.app.AppCompatActivity;
import javax.script.ScriptEngine;
import javax.script.ScriptEngineManager;
import javax.script.ScriptException;
        workingsTV = (TextView) findViewById(R.id.workingsTextView);
       checkForPowerOf();
        } catch (ScriptException e)
```

```
indexOfPowers.add(i);
    if(isNumeric(workings.charAt(i)))
       numberLeft = numberLeft + workings.charAt(i);
String original = numberLeft + "^" + numberRight;
```

```
if(leftBracket)
   setWorkings("8");
public void nineOnClick(View view)
   setWorkings("9");
```

```
setWorkings("-");
setWorkings("1");
setWorkings("+");
setWorkings("0");
if (!workings.isEmpty()) {
    workings = workings.substring(0, workings.length() - 1);
```

activity_main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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"</pre>
```

```
android:orientation="vertical'
<LinearLayout
    android:layout width="match parent"
        android:paddingEnd="30dp"
        android: layout gravity="end"
    android:layout height="0dp"
    android:layout weight="7">
        android:layout width="match parent"
        android:layout height="0dp"
        android:layout weight="1"
            android:layout width="0dp"
            android:layout height="match parent"
            android:textSize="@dimen/calcButtonTextSize"
```

```
android:onClick="clearOnClick"
        android:textColor="@color/white"
</LinearLayout>
<LinearLayout
   android:layout weight="1">
   android:layout height="match parent"
   android:layout weight="1"
   android:textSize="@dimen/calcButtonTextSize"
   android:layout width="0dp"
```

```
android:layout height="match parent"
        android:layout weight="1"
<LinearLayout
    android:layout width="match parent"
        android:textSize="@dimen/calcButtonTextSize"
```

```
android:layout height="match parent"
   android:text="1"
   android:layout height="match parent"
   android:textColor="@color/white"
    android:layout height="match parent"
    android:textSize="@dimen/calcButtonTextSize"
```

```
android:onClick="threeOnClick'
    android:layout_height="match_parent"
android:layout_weight="1"
    android:textColor="@color/orange"
android:layout weight="1">
    android:onClick="zeroOnClick"
    android:text="0"
    android:layout weight="1"
    android:layout width="0dp"
```

colors.xml:

dimensions.xml:

build.gradle.kts(:app):

```
plugins {
    id("com.android.application")
}

android {
    namespace = "com.example.mycalculator"
    compileSdk = 34

    defaultConfig {
        applicationId = "com.example.mycalculator"
        minSdk = 21
        targetSdk = 34
        versionCode = 1
        versionName = "1.0"

        testInstrumentationRunner =
"androidx.test.runner.AndroidJUnitRunner"
    }

    buildTypes {
        release {
            isMinifyEnabled = false
```

Output: Performing some operations:-











