**Main Activity (Base Activity)**

When we initialized our project, at that time by default an activity was created. This activity is called as **MainActivity.**

Here as per our project we can change the **MainActivity.java as** follows-

package com.professionaljk.cgpisgpicalculator;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
  
public class MainActivity extends AppCompatActivity {  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 }  
 public void calculateCGPI(View view){  
 Intent intent = new Intent(this,CGPIActivity1.class);  
 startActivity(intent);  
 }  
 public void calculateSGPI(View view){  
 Intent intent = new Intent(this,SGPIActivity1.class);  
 startActivity(intent);  
 }  
}

Also, make some changes as follows in **activity\_main.xml-**

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.ConstraintLayout 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=".MainActivity">  
  
 <TextView  
 android:id="@+id/welcomeText"  
 android:layout\_width="240dp"  
 android:layout\_height="100dp"  
 android:layout\_marginTop="8dp"  
 android:text="Welcome"  
 android:textAlignment="center"  
 android:textAppearance="@style/TextAppearance.AppCompat.Display1"  
 android:textColor="#2196F3"  
 android:textSize="60dp"  
 app:fontFamily="cursive"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.17" />  
  
 <Button  
 android:id="@+id/cgpiCalculate"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="8dp"  
 android:layout\_marginLeft="8dp"  
 android:layout\_marginTop="8dp"  
 android:layout\_marginEnd="8dp"  
 android:layout\_marginRight="8dp"  
 android:layout\_marginBottom="8dp"  
 android:background="#FFFFFF"  
 android:onClick="calculateCGPI"  
 android:text="CGPI"  
 android:textColor="#009688"  
 android:textSize="25dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.498"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/welcomeText"  
 app:layout\_constraintVertical\_bias="0.333" />  
  
 <Button  
 android:id="@+id/sgpiCalculate"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="8dp"  
 android:layout\_marginLeft="8dp"  
 android:layout\_marginTop="8dp"  
 android:layout\_marginEnd="8dp"  
 android:layout\_marginRight="8dp"  
 android:layout\_marginBottom="8dp"  
 android:background="#FFFFFF"  
 android:onClick="calculateSGPI"  
 android:text="SGPI"  
 android:textColor="#009688"  
 android:textSize="25dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.498"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/cgpiCalculate"  
 app:layout\_constraintVertical\_bias="0.223" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

Here, we have given two options as

1) CGPI: Where user will be able to calculate the average pointer and corresponding equivalent percentage.

2) SGPI: Where user will be able to calculate equivalent percentage of given pointer.

**OUTPUT:**

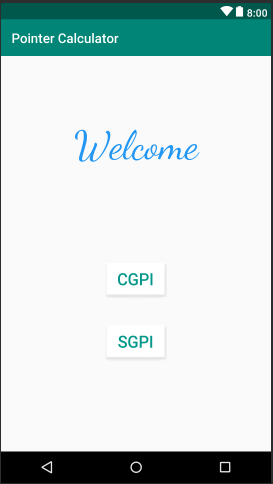


Fig. MainActivity