Splash Screen Activity

For creating a splash screen, we have to perform following changes-

1) We have to implicitly declare **SplashScreenActivity** as launcher activity. For that in Android Manifest file make following changes-

```xml
<activity android:name=".SplashScreenActivity">
    <intent-filter>
        <action android:name="android.intent.action.MAIN" />

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

2) In corresponding layout file **activity_splash_screen.xml**, make changes as following-

```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=".SplashScreenActivity">

    <ImageView
        android:id="@+id/imageView2"
        android:layout_width="407dp"
        android:layout_height="737dp"
        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="#000000"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:srcCompat="@drawable/logo" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

3) We need our SplashScreenActivity to be viewed in full screen. Also, it should last for 5 seconds and then automatically moves to next activity. For that make changes in **SplashScreenActivity.java** as

```java
package com.professionaljk.cgpisgpicalculator;

import android.content.Intent;
import android.os.Bundle;
import android.view.WindowManager;

import androidx.appcompat.app.AppCompatActivity;

public class SplashScreenActivity extends AppCompatActivity {
    private int SLEEP_TIMER = 5;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        requestWindowFeature(getWindow().FEATURE_NO_TITLE);
```

```
        getWindow().setFlags(WindowManager.LayoutParams.FLAG_FULLSCREEN,
WindowManager.LayoutParams.FLAG_FULLSCREEN);
        setContentView(R.layout.activity_splash_screen);
        getSupportActionBar().hide();
        LogoLauncher = new LogoLauncher();
        logoLauncher.start();
    }
    private class LogoLauncher extends Thread{
        public void run(){
            try{
                sleep(1000 * SLEEP_TIMER);
            }catch(InterruptedException e){
                e.printStackTrace();
            }
            Intent = new Intent(SplashScreenActivity.this, LoginActivity.class);
            startActivity(intent);
            SplashScreenActivity.this.finish();
        }
    }
}
```

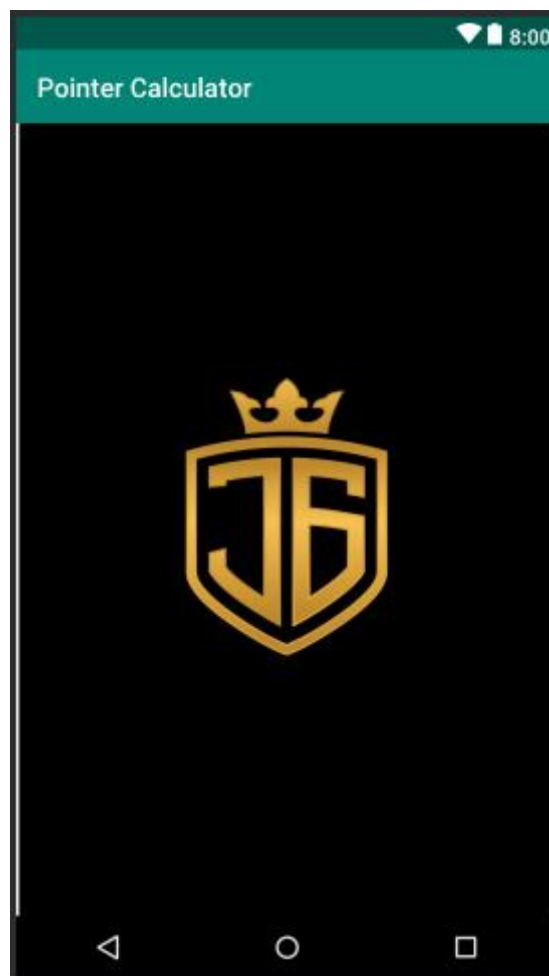4) After 5 seconds of launching this activity it will navigates to next activity i.e.
LoginActivity.

OUTPUT:

Fig. SplashScreenActivity