10. Display Map based on the Current/given location.

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=".MainActivity">
 <fragment
   android:layout_width="match_parent"
   android:layout_height="match_parent"
   android:id="@+id/id_map"
   android:name="com.google.android.gms.maps.SupportMapFragment"/>
</RelativeLayout>
MainActivity.java
package com.example.gmapactivity;
import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import com.google.android.gms.maps.CameraUpdateFactory;
import com.google.android.gms.maps.GoogleMap;
import com.google.android.gms.maps.OnMapReadyCallback;
```

import com.google.android.gms.maps.SupportMapFragment;

import com.google.android.gms.maps.model.MarkerOptions;

import com.google.android.gms.maps.model.LatLng;

```
import android.os.Bundle;
public class MainActivity extends AppCompatActivity implements OnMapReadyCallback {
 private GoogleMap mMap;
 @Override
 protected void on Create (Bundle savedInstanceState) {
   super.onCreate(savedInstanceState);
   setContentView(R.layout.activity_main);
   SupportMapFragment mapFragment = (SupportMapFragment)
getSupportFragmentManager()
       .findFragmentById(R.id.id_map);
   mapFragment.getMapAsync(this);
 }
 @Override
 public void onMapReady(@NonNull GoogleMap googleMap) {
   LatLng location=new LatLng(12.9364, 77.5782);
   // co-ordinates of surana college 12.9364° N, 77.5782° E
   googleMap.addMarker(new MarkerOptions().position(location).title("Surana College"));
   googleMap.moveCamera(CameraUpdateFactory.newLatLngZoom(location,12));
 }
}
AndroidManifest.xml
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
 xmlns:tools="http://schemas.android.com/tools">
 <uses-permission android:name="android.permission.ACCESS_FINE_LOCATION"/>
 <uses-permission android:name="android.permission.INTERNET"/>
 <uses-permission android:name="android.permission.ACCESS_NETWORK_STATE"/>
 <uses-permission android:name="android.permission.ACCESS_COARSE_LOCATION"/>
 <application
```

```
android:allowBackup="true"
   and roid: data Extraction Rules = "@xml/data\_extraction\_rules"
   android:fullBackupContent="@xml/backup_rules"
   android:icon="@mipmap/ic_launcher"
   android:label="@string/app_name"
   android:roundlcon="@mipmap/ic_launcher_round"
   android:supportsRtl="true"
   android:theme="@style/Theme.GMapActivity"
   tools:targetApi="31">
   <activity
     android:name=".MainActivity"
     android:exported="true">
     <intent-filter>
       <action android:name="android.intent.action.MAIN" />
       <category android:name="android.intent.category.LAUNCHER" />
     </intent-filter>
   </activity>
   <meta-data
     android:name="com.google.android.geo.API_KEY"
     android:value="YOUR_API_KEY" />
 </application>
</manifest>
build.gradle.kts(module:app)
dependencies {
 implementation("androidx.appcompat:appcompat:1.6.1")
 implementation("com.google.android.material:material:1.11.0")
 implementation("androidx.constraintlayout:constraintlayout:2.1.4")
 testImplementation("junit:junit:4.13.2")
```

```
androidTestImplementation("androidx.test.ext:junit:1.1.5")
androidTestImplementation("androidx.test.espresso:espresso-core:3.5.1")
implementation("com.google.android.gms:play-services-maps:18.2.0")
implementation("com.google.android.gms:play-services-location:21.2.0")
}
```

OUTPUT:



