1. Create an Android Application to display satellite view of current location using Google Map.  
   Ans: -

after Creating project choose ‘Google Maps Activity’ option  
  
activity\_maps.xml

<?xml version="1.0" encoding="utf-8"?>  
<fragment xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:map="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:id="@+id/map"  
 android:name="com.google.android.gms.maps.SupportMapFragment"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MapsActivity" />  
  
Manifest.xml: -

<?xml version="1.0" encoding="utf-8"?>

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools"

package="com.example.mymap">

<uses-permission android:name="android.permission.ACCESS\_FINE\_LOCATION"/>

<uses-permission android:name="android.permission.ACCESS\_COARSE\_LOCATION"/>

<uses-permission android:name="android.permission.INTERNET"/>

<application

android:allowBackup="true"

android:dataExtractionRules="@xml/data\_extraction\_rules"

android:fullBackupContent="@xml/backup\_rules"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:roundIcon="@mipmap/ic\_launcher\_round"

android:supportsRtl="true"

android:theme="@style/Theme.MyMap"

tools:targetApi="31">

<!--

*TODO: Before you run your application, you need a Google Maps API key.*

To get one, follow the directions here:

https://developers.google.com/maps/documentation/android-sdk/get-api-key

Once you have your API key (it starts with "AIza"), define a new property in your

project's local.properties file (e.g. MAPS\_API\_KEY=Aiza...), and replace the

"YOUR\_API\_KEY" string in this file with "${MAPS\_API\_KEY}".

-->

<meta-data

android:name="com.google.android.geo.API\_KEY"

android:value="AIzaSyBx\_iDLu0-7wK1YiruW36MTlEjvuRB\_weI" />

<activity

android:name=".MapsActivity"

android:exported="true"

android:label="@string/title\_activity\_maps">

<intent-filter>

<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

</application>

</manifest>

MapsActivity.java: -

package com.example.mymap;

import android.os.Bundle;

import androidx.fragment.app.FragmentActivity;

import com.example.mymap.databinding.ActivityMapsBinding;

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.LatLng;

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

public class MapsActivity extends FragmentActivity implements OnMapReadyCallback {

private GoogleMap mMap;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

com.example.mymap.databinding.ActivityMapsBinding binding = ActivityMapsBinding.*inflate*(getLayoutInflater());

setContentView(binding.getRoot());

// Obtain the SupportMapFragment and get notified when the map is ready to be used.

SupportMapFragment mapFragment = (SupportMapFragment) getSupportFragmentManager()

.findFragmentById(R.id.*map*);

mapFragment.getMapAsync(this);

}

*/\*\**

*\* Manipulates the map once available.*

*\* This callback is triggered when the map is ready to be used.*

*\* This is where we can add markers or lines, add listeners or move the camera. In this case,*

*\* we just add a marker near Sydney, Australia.*

*\* If Google Play services is not installed on the device, the user will be prompted to install*

*\* it inside the SupportMapFragment. This method will only be triggered once the user has*

*\* installed Google Play services and returned to the app.*

*\*/*

@Override

public void onMapReady(GoogleMap googleMap) {

mMap = googleMap;

LatLng RMC = new LatLng(18.647810,73.775695);

mMap.addMarker(new MarkerOptions().position(RMC).title("Marker in Ramkrishna More College"));

mMap.moveCamera(CameraUpdateFactory.*newLatLng*(RMC));

}

}