Google Service Map APi

**Step-1 : Add below dependency in build.gragle(app module)**

dependencies **{**

**implementation 'com.google.android.gms:play-services-location:17.0.1'**

**}**

**the AndroidManifest.xml file.**

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

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

Or

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

**GUI Design file : 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"  
 android:orientation="vertical"  
 tools:context=".MainActivity"**>  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Get Current Location Example"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"** />  
  
 <**Button  
 android:id="@+id/btnshow"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Get Current Location"** />  
  
 <**TextView  
 android:id="@+id/txtshow"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Show Current Location Here..."  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"** />  
</**LinearLayout**>

**MainActivity.java file:**

**package** com.example.getlocationdemo;

**import** androidx.appcompat.app.AppCompatActivity;

**import** androidx.core.app.ActivityCompat;

**import** androidx.core.content.ContextCompat;

**import** android.Manifest;

**import** android.content.pm.PackageManager;

**import** android.location.Location;

**import** android.os.Bundle;

**import** android.view.View;

**import** android.widget.Button;

**import** android.widget.TextView;

**import** com.google.android.gms.location.FusedLocationProviderClient;

**import** com.google.android.gms.location.LocationServices;

**import** com.google.android.gms.tasks.OnSuccessListener;

**public class** MainActivity **extends** AppCompatActivity

{

**private static final int *MY\_PERMISSIONS\_REQUEST\_ACCESS\_COARSE\_LOCATION*** =1 ;

Button **btnget**;

TextView **txtshowlocation**;

**private** FusedLocationProviderClient **fusedLocationClient**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 **btnget**=(Button) findViewById(R.id.***btnshow***) ;  
 **txtshowlocation**=(TextView) findViewById(R.id.***txtshow***);  
  
 **fusedLocationClient** = LocationServices.*getFusedLocationProviderClient*(**this**);  
  
 **btnget**.setOnClickListener(**new** View.OnClickListener()  
 {  
 @Override  
 **public void** onClick(View view) {  
 fetchLocation();  
 }  
 });  
  
 }  
 **private void** fetchLocation() {  
  
 **if** (ContextCompat.*checkSelfPermission*(MainActivity.**this**, Manifest.permission.***ACCESS\_COARSE\_LOCATION***) != PackageManager.***PERMISSION\_GRANTED***) {  
 *//if permission denied* **if**(ActivityCompat.*shouldShowRequestPermissionRationale*(MainActivity.**this**,  
 Manifest.permission.***ACCESS\_COARSE\_LOCATION***))  
 {  
  
 }  
 **else** {  
 ActivityCompat.*requestPermissions*(MainActivity.**this**, **new** String[]{Manifest.permission.***ACCESS\_COARSE\_LOCATION***},***MY\_PERMISSIONS\_REQUEST\_ACCESS\_COARSE\_LOCATION***);  
 }  
 }  
 **else** {  
 *//Permission is granted* **fusedLocationClient**.getLastLocation()  
 .addOnSuccessListener(**this**, **new** OnSuccessListener<Location>() {  
 @Override  
 **public void** onSuccess(Location location) {  
 *// Got last known location. In some rare situations this can be null.* **if** (location != **null**) {  
 *// Logic to handle location object* Double lat=location.getLatitude();  
 Double longi=location.getLongitude();  
 **txtshowlocation**.setText(**"Latitude="**+lat+**"\nLongitude"**+longi);  
 }  
 }  
 });  
 }  
 }  
}