**Date :- / /**

**Practical No :- 15**

**Practical Name :- Write code that will call maps using android application.**

**Roll No :-**

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* **CODE :-**

**Acitivity\_main.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" />

**AndroidManifest.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">  
  
 <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.MAPEXAMPLE"  
 tools:targetApi="31"><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>  
 <meta-data  
 android:name="com.google.android.geo.API\_KEY"  
 android:value="AIzaSyCyqTIZt9IAXD5-H98hEQbbx1QooCTrBDg" />  
 </application>  
  
</manifest>

**MapActivity.java :-**

package com.example.mapexample;  
  
import androidx.fragment.app.FragmentActivity;  
import android.os.Bundle;  
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;  
import com.example.mapexample.databinding.ActivityMapsBinding;  
  
public class MapsActivity extends FragmentActivity implements OnMapReadyCallback {  
  
 private GoogleMap mMap;  
 private ActivityMapsBinding binding;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
  
 binding = ActivityMapsBinding.*inflate*(getLayoutInflater());  
 setContentView(binding.getRoot());  
  
 SupportMapFragment mapFragment = (SupportMapFragment) getSupportFragmentManager()  
 .findFragmentById(R.id.*map*);  
 mapFragment.getMapAsync(this);  
 }  
@Override  
 public void onMapReady(GoogleMap googleMap) {  
 mMap = googleMap;

LatLng India = new LatLng(20, 76);  
 mMap.addMarker(new MarkerOptions().position(India).title("Marker in India"));  
 mMap.moveCamera(CameraUpdateFactory.*newLatLng*(India));  
 }  
}

**ExampleUnitTest.java :-**

package com.example.mapexample;  
  
import org.junit.Test;  
import static org.junit.Assert.\*;  
public class ExampleUnitTest {  
 @Test  
 public void addition\_isCorrect() {  
 *assertEquals*(4, 2 + 2);  
 }  
}

**ExampleInstrumentedTest.java :-**

package com.example.mapexample;  
  
import android.content.Context;  
import androidx.test.platform.app.InstrumentationRegistry;  
import androidx.test.ext.junit.runners.AndroidJUnit4;  
import org.junit.Test;  
import org.junit.runner.RunWith;  
import static org.junit.Assert.\*;  
@RunWith(AndroidJUnit4.class)  
public class ExampleInstrumentedTest {  
 @Test  
 public void useAppContext() {  
 *.* Context appContext = InstrumentationRegistry.*getInstrumentation*().getTargetContext();  
 *assertEquals*("com.example.mapexample", appContext.getPackageName());  
 }  
}

**BuildConfig.java :-**

package com.example.mapexample;  
  
import android.content.Context;  
import androidx.test.platform.app.InstrumentationRegistry;  
import androidx.test.ext.junit.runners.AndroidJUnit4;  
import org.junit.Test;  
import org.junit.runner.RunWith;  
import static org.junit.Assert.\*;  
@RunWith(AndroidJUnit4.class)  
public class ExampleInstrumentedTest {  
 @Test  
 public void useAppContext() {  
Context appContext = InstrumentationRegistry.*getInstrumentation*().getTargetContext();  
 *assertEquals*("com.example.mapexample", appContext.getPackageName());  
 }  
}

* **OUTPUT :-**

