Practical No 31

X.1

- **Program**
- **XML File:**

```
<?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:id="@+id/emergncy"
 android:layout_width="match_parent"
 android:layout_height="match_parent"
 tools:context=".MainActivity">
 <fragment
 android:id="@+id/google_map"
 android:name="com.google.android.gms.maps.SupportMapFragment"
 android:layout_width="match_parent"
 android:layout_height="match_parent" />
</RelativeLayout>
```

- **JAVA File:**

```
package com.example.pr_31_1;
import android.Manifest;
import android.app.Activity;
import android.content.pm.PackageManager;
import android.location.Location;
import android.os.Bundle;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.ActivityCompat;
import com.google.android.gms.location.FusedLocationProviderClient;
import com.google.android.gms.location.LocationServices;
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.google.android.gms.tasks.OnSuccessListener;
public class MainActivity extends AppCompatActivity {
 FusedLocationProviderClient client;
 SupportMapFragment;
 public void onCreate(Bundle savedInstanceState) {
 super.onCreate(savedInstanceState);
 setContentView(R.layout.activity_main);
 this.supportMapFragment = (SupportMapFragment)
getSupportFragmentManager().findFragmentById(R.id.google_map);
 this.client =
LocationServices.getFusedLocationProviderClient((Activity) this);
 if (ActivityCompat.checkSelfPermission(this,
"android.permission.ACCESS_FINE_LOCATION") == 0) {
 getCurrentLocation();
 } else {
 ActivityCompat.requestPermissions(this, new
String[]{"android.permission.ACCESS_FINE_LOCATION"}, 44);
 }
 }
 private void getCurrentLocation() {
 if (ActivityCompat.checkSelfPermission(this,
Manifest.permission.ACCESS_FINE_LOCATION) !=
PackageManager.PERMISSION_GRANTED &&
ActivityCompat.checkSelfPermission(this,
Manifest.permission.ACCESS_COARSE_LOCATION) !=
PackageManager.PERMISSION_GRANTED) {
 // TODO: Consider calling
 // ActivityCompat#requestPermissions
 // here to request the missing permissions, and then overriding
 // public void onRequestPermissionsResult(int requestCode,
```

```
String[] permissions,
 // int[] grantResults)
 // to handle the case where the user grants the permission. See
the documentation
 // for ActivityCompat#requestPermissions for more details.
 return;
 }
 this.client.getLastLocation().addOnSuccessListener(new
OnSuccessListener<Location>() {
 public void onSuccess(final Location location) {
 if (location != null) {
 MainActivity.this.supportMapFragment.getMapAsync(new
OnMapReadyCallback() {
 public void onMapReady(GoogleMap googleMap) {
 LatLng = new LatLng(location.getLatitude(),
location.getLongitude());
 MarkerOptions options = new
MarkerOptions().position(latLng).title("User Location");

googleMap.animateCamera(CameraUpdateFactory.newLatLngZoom(latLng, 15.0f));
 googleMap.addMarker(options);
 }
 });
 }
 }
 });
 }
 public void onRequestPermissionsResult(int requestCode, String[]
permissions, int[] grantResults) {
 super.onRequestPermissionsResult(requestCode, permissions,
grantResults);
 if (requestCode == 44 && grantResults.length > 0 && grantResults[0]
== 0) {
 getCurrentLocation();
```

```
 }
 }
}
```

- **Manifest File:**

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
 package="com.example.pr_31_1">
<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"
 android:icon="@mipmap/ic_launcher"
 android:label="@string/app_name"
 android:roundIcon="@mipmap/ic_launcher_round"
 android:supportsRtl="true"
 android:theme="@style/Theme.MAD">
 <meta-data
 android:name="com.google.android.geo.API_KEY"
 android:value="AIzaSyAQRHaTav_VOMpQS3heqYJj6-WE_LB72K4" />
 <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>
 </application>
</manifest>
```

- **Output:**


1:29 AM | 2.6KB/s
pr_31_1
Dr. Rahul Hande
Samruddh
Pankaj Medical
Jijai Poultry
Gholap Grapes
Google