AndroidManifest.xml

De adaugat permisiuni:

```xml
<uses-permission android:name="android.permission.ACCESS_FINE_LOCATION"></uses-permission>
<uses-permission android:name="android.permission.ACCESS_COARSE_LOCATION"></uses-permission>
```

In fisierul layout, de inclus un TextView:

```xml
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/lblCoordonate"
    android:textSize="45dp"
    android:text="Address:" />
```

```java
package com.example.octavian.appgps;

import android.Manifest;
import android.content.pm.PackageManager;
import android.location.Location;
import android.location.LocationListener;
import android.location.LocationManager;
import android.os.Bundle;
import android.support.v4.app.ActivityCompat;
import android.support.v7.app.AppCompatActivity;
//import androidx.appcompat.app.AppCompatActivity;
import android.util.Log;
import android.widget.TextView;

//import androidx.appcompat.app.AppCompatActivity;

public class FrmCoordonate extends AppCompatActivity implements LocationListener {

    LocationManager locManager;
    TextView txtCoordonate;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_frm_coordonate);
        //codul meu
        Log.i("TAVY","Am intrat in onCreate");
```

```java
        txtCoordonate = (TextView) findViewById(R.id.lblCoordonate);
        //get a manager
        locManager = (LocationManager) getSystemService(LOCATION_SERVICE);
        //aflu ultima locatie cunoscuta din antena GPS a telefonului

        Log.i("TAVY","Inainte de if");
        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.
            Log.i("TAVY","Am intrat in if");
            int REQUEST_LOCATION=2;
            ActivityCompat.requestPermissions(this,  new String[]{Manifest.permission.ACCESS_FINE_LOCATION},
REQUEST_LOCATION);
        //    return;
        }
else {
            Log.i("TAVY", "Inainte de getLastKnownLocation. Am intrat in else.");
Location ultimaLocatie = locManager.getLastKnownLocation(LocationManager.GPS_PROVIDER);
            if (ultimaLocatie != null)
                onLocationChanged(ultimaLocatie); ;
        }
    }


    @Override
    public void onLocationChanged(Location location) {
        //implementez ce se intampla de fiecare data cand se schimba locatia
        this.txtCoordonate.setText(Double.toString(location.getLatitude()) + "   " +
Double.toString(location.getLongitude()));
        Log.i("TAVY","S-a schimbat locatia!");
    }

    @Override
    public void onStatusChanged(String provider, int status, Bundle extras) {

    }

    @Override
    public void onProviderEnabled(String provider) {

    }

    @Override
    public void onProviderDisabled(String provider) {

    }
```

```java
    @Override
    protected void onResume() {
        super.onResume();
        //aici incep procesul de actualizare a locatiilor
        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;
        }
        locManager.requestLocationUpdates(LocationManager.GPS_PROVIDER, 1000, 10, this);
    }
}
```