AndroidManifest.xml

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

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

**package="com.example.jevitha.a26\_2\_gpsread"**>

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

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

<**activity android:name=".MainActivity"**>

<**intent-filter**>

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

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

</**intent-filter**>

</**activity**>

</**application**>

</**manifest**>

Activity\_main.xml

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

<**android.support.constraint.ConstraintLayout 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"**

**tools:context=".MainActivity"**>

<**TextView**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:text="Hello World!"**

**android:id="@+id/textview1"**

**android:textSize="20dp"**

**android:textColor="@color/colorAccent"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintLeft\_toLeftOf="parent"**

**app:layout\_constraintRight\_toRightOf="parent"**

**app:layout\_constraintTop\_toTopOf="parent"** />

</**android.support.constraint.ConstraintLayout**>

MainActivity.java

**package** com.example.jevitha.a26\_2\_gpsread;

**import** android.Manifest;

**import** android.annotation.SuppressLint;

**import** android.app.Activity;

**import** android.content.Context;

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

**import** android.location.Criteria;

**import** android.location.Location;

**import** android.location.LocationListener;

**import** android.location.LocationManager;

**import** android.support.v4.app.ActivityCompat;

**import** android.support.v7.app.AppCompatActivity;

**import** android.os.Bundle;

**import** android.util.Log;

**import** android.widget.TextView;

**import** android.widget.Toast;

**public class** MainActivity **extends** Activity

**implements** LocationListener {

**protected** LocationManager locationManager;

TextView txtLat;

@Override

**protected void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

txtLat = (TextView) findViewById(R.id.textview1);

locationManager = (LocationManager)

getSystemService(Context.LOCATION\_SERVICE);

*// if (ActivityCompat.checkSelfPermission*

*// (this, Manifest.permission.ACCESS\_FINE\_LOCATION)*

*// != PackageManager.PERMISSION\_GRANTED && ActivityCompat.checkSelfPermission*

*// (this, Manifest.permission.ACCESS\_COARSE\_LOCATION) !=*

*// PackageManager.PERMISSION\_GRANTED) {*

*//*

*// return;*

*// }*

**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**;

}

**locationManager**.requestLocationUpdates(LocationManager.***GPS\_PROVIDER***,

1000, 0, **this**);

}

@Override

**public void** onLocationChanged(Location location) {

**txtLat** = (TextView) findViewById(R.id.***textview1***);

**txtLat**.setText(**"Latitude:"** + location.getLatitude() + **", Longitude:"** +

location.getLongitude());

}

@Override

**public void** onProviderDisabled(String provider) {

Log.d(**"Latitude"**,

**"disable"**);

}

@Override

**public void** onProviderEnabled(String provider) {

Log.d(**"Latitude"**,

**"enable"**);

}

@Override

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

Log.d(**"Latitude"**,**"status"**);

}

}