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"**

**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**;

}

**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"**);

}

}

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**>