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**Address**

College Rd, Tamil Nadu 628617, India

[Get GPS Coordinates](#)

**DD (decimal degrees)\***

**Latitude**

8.5389895

**Longitude**

77.9705004

[Get Address](#)

**DMS (degrees, minutes, seconds)\***

**Latitude**

☒ N ☐ S 8 ° 32 ' 20.362 ''

**Longitude**

☒ E ☐ W 77 ° 58 ' 13.801 ''

[Get Address](#)

A satellite map view from Google Maps. A red pin is placed on a road, and a white information box is overlaid on the map. The box contains the text "College Rd, Tamil Nadu 628617, India" and "Latitude: 8.53899 | Longitude: 77.9705". Below this text is a blue button labeled "Get Altitude". The map shows surrounding areas with labels like "Vellamadam", "Pilliyanmanai", "Nazareth", "Jeba GnanaPuram", "Pidanneri", and "Thoppur". A road labeled "Nazareth Rd" and "93" is also visible. The bottom of the map shows the Google logo and copyright information: "Map data ©2016 Google Imagery ©2016 CNES / Astrium, Cnes/Spot Image, DigitalGlobe, Landsat Terms of Use Report a map error".

## **activity\_main.xml**

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent">
    <TextView
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:text="Display GPS Location"/>
    <EditText
        android:id="@+id/editTextLat"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:gravity="top" />
    <EditText
        android:id="@+id/textlon"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:gravity="top" />
    <Button
        android:id="@+id/buttonSend"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:text="Show Location"
        android:onClick="showLocation" />
</LinearLayout>
```

## **MainActivity.java**

```
package com.example.gpslocation;
```

```
import android.app.Activity;
```

```
import android.os.Bundle;
```

```
import android.content.Context;
```

```
import android.location.Location;
```

```
import android.location.LocationListener;
```

```
import android.location.LocationManager;
```

```
import android.view.View;
```

```
import android.widget.EditText;
```

```
import android.widget.Toast;
```

```
public class MainActivity extends Activity {
```

```
    EditText textLat;
```

```
    EditText textlon;
```

```
    @Override
```

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

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);
```

```
        textLat = (EditText) findViewById(R.id.editTextLat);
```

```
        textlon = (EditText) findViewById(R.id.textlon);
```

```
        LocationManager mlocManager =
```

```
(LocationManager) getSystemService(Context.LOCATION_SERVICE);
```

```
        LocationListener mlocListener = new MyLocationListener();
```

```
        mlocManager.requestLocationUpdates( LocationManager.GPS_PROVIDER, 0, 0,
mlocListener);

        // two provider: 1.GPS_PROVIDER 2.NETWORK_PROVIDER
// Use GPS_PROVIDER for Emulator, NETWORK_PROVIDER for Mobile data in Mobile.
    }
```

```
public class MyLocationListener implements LocationListener
{
```

```
    public void onLocationChanged(Location loc)
    {
        loc.getLatitude();
        loc.getLongitude();
        Double lat=loc.getLatitude();
        Double lon=loc.getLongitude();
        textLat.setText(lat.toString());
        textlon.setText(lon.toString());
    }
```

```
    public void onProviderDisabled(String provider)
    {
        Toast.makeText( getApplicationContext(),"Gps
Disabled",Toast.LENGTH_SHORT).show();
    }
```

```
    public void onProviderEnabled(String provider)
    {
        Toast.makeText( getApplicationContext(),"Gps
Enabled",Toast.LENGTH_SHORT).show();
    }
```

```

    }

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

}

public void showLocation(View v){
    Toast.makeText(getApplicationContext(),"Your Location is \nLatitude:
    "+textLat.getText().toString()+"\nLongitude: "+textlon.getText().toString(),
    Toast.LENGTH_LONG).show();
}
}

```

### **AndroidManifest.xml**

```

<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.gpslocation"
    android:versionCode="1"
    android:versionName="1.0" >

    <uses-sdk
        android:minSdkVersion="17"
        android:targetSdkVersion="17" />

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

```

```
<application
    android:allowBackup="true"
    android:icon="@drawable/ic_launcher"
    android:label="@string/app_name"
    android:theme="@style/AppTheme" >
    <activity
        android:name=".MainActivity"
        android:label="@string/app_name" >
        <intent-filter>
            <action android:name="android.intent.action.MAIN" />
            <category android:name="android.intent.category.LAUNCHER" />
        </intent-filter>
    </activity>
</application>
```

```
</manifest>
```