**Ex8 – Develop a native application that uses GPS location information**

**MainActivity.java:**

**package** com.example.ex\_8;  
  
**import** android.content.Intent;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
  
**public class** MainActivity **extends** AppCompatActivity {  
 EditText **input\_lat**, **input\_lon**;  
 Button **btn\_submit**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 Intent i = **new** Intent(MainActivity.**this**,MainActivity2.**class**);  
 **btn\_submit** = (Button) findViewById(R.id.***button***);  
 **input\_lat** = (EditText) findViewById(R.id.***editTextTextPersonName***);  
 **input\_lon** = (EditText) findViewById(R.id.***editTextTextPersonName2***);  
 **btn\_submit**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 String lat=**input\_lat**.getText().toString();  
 String lon=**input\_lon**.getText().toString();  
 i.putExtra(**"lat"**,lat);  
 i.putExtra(**"lon"**,lon);  
 startActivity(i);  
 }  
 });  
  
 }  
}

**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"**>  
  
 <**LinearLayout  
 android:layout\_width="409dp"  
 android:layout\_height="354dp"  
 android:orientation="vertical"  
 tools:layout\_editor\_absoluteX="1dp"  
 tools:layout\_editor\_absoluteY="1dp"  
 tools:ignore="MissingConstraints"**>  
  
 <**EditText  
 android:id="@+id/editTextTextPersonName"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text="Name"** />  
  
 <**EditText  
 android:id="@+id/editTextTextPersonName2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text="Name"** />  
  
 <**Button  
 android:id="@+id/button"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Button"** />  
 </**LinearLayout**>  
  
</**android.support.constraint.ConstraintLayout**>

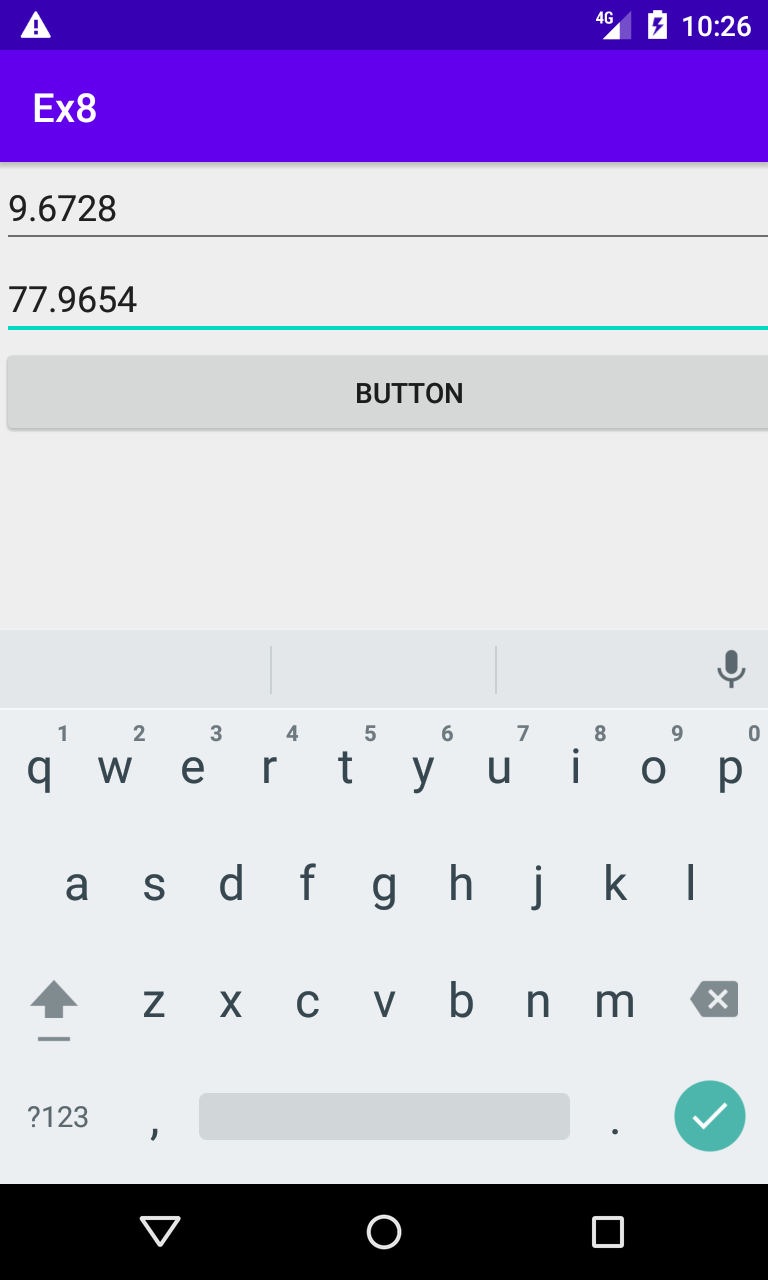
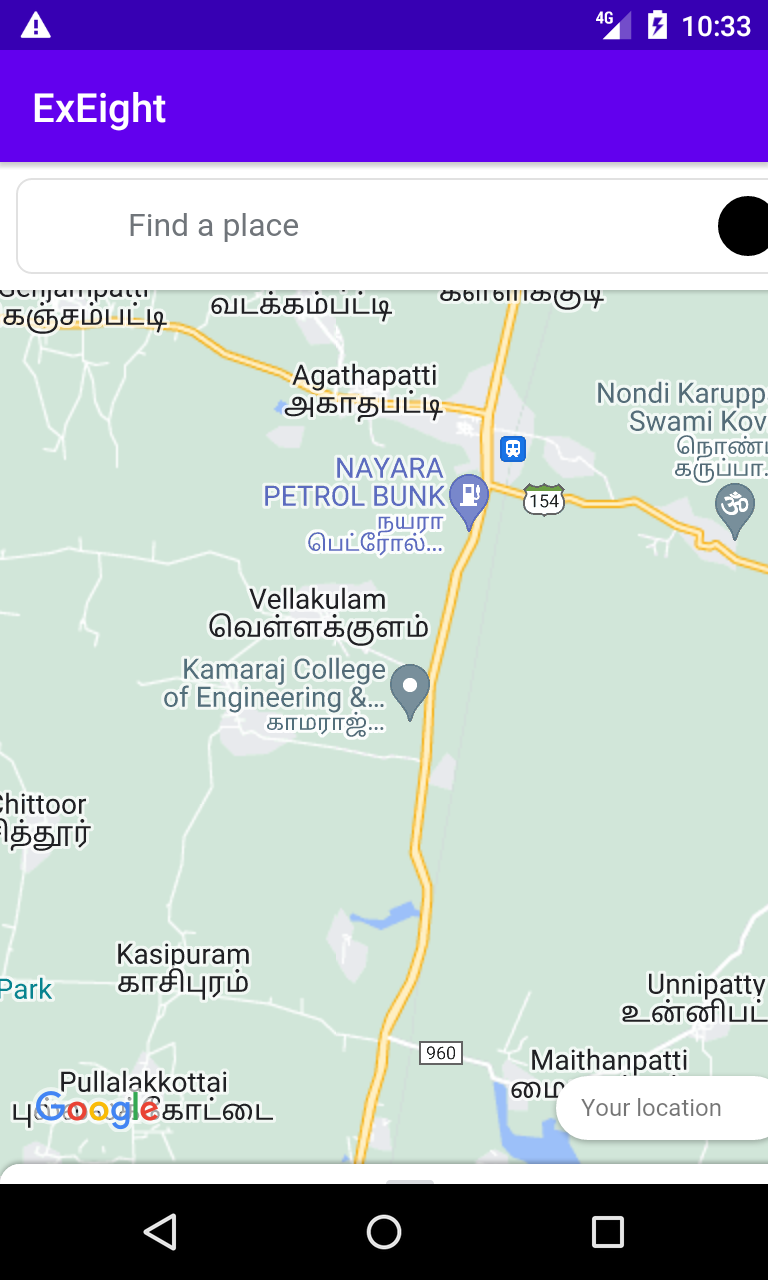
**MainActivity2.java :**

**package com.example.ex\_8;**import android.support.v7.app.AppCompatActivity;  
import android.os.Bundle;  
import android.webkit.WebSettings;  
import android.webkit.WebView;  
import android.webkit.WebViewClient;  
  
public class MainActivity2 extends AppCompatActivity {  
 WebView web;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main2*);  
 Bundle bun = getIntent().getExtras();  
 String lat = bun.getString("lat");  
 String lon = bun.getString("lon");  
 web = (WebView) findViewById(R.id.*web\_view*); *//provide id inside xml code* WebSettings webSettings = web.getSettings();  
 webSettings.setJavaScriptEnabled(true);  
 web.loadUrl("https://www.google.co.in/maps/@"+lat+","+lon+",13z");  
 web.setWebViewClient(new WebViewClient());  
 }  
}

**activity\_main2.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=".MainActivity2">  
  
 <LinearLayout  
 android:layout\_width="409dp"  
 android:layout\_height="729dp"  
 android:orientation="vertical"  
 tools:layout\_editor\_absoluteX="1dp"  
 tools:layout\_editor\_absoluteY="1dp">  
  
 <WebView  
 android:id="@+id/web\_view"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent" />  
 </LinearLayout>  
</android.support.constraint.ConstraintLayout>**

**OUTPUT :**

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