PROJECT 1

GOOGLE MAP

ACTIVITYMAIN.XML

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

<**RelativeLayout 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:id="@+id/locationText"**

**android:text=""**

**android:textColor="#000"**

**android:textSize="17sp"**

**android:textAlignment="center"**

**android:layout\_centerInParent="true"**

**android:layout\_above="@+id/getLocationBtn"**

**android:layout\_marginBottom="10dp"**

**android:padding="10dp"**/>

<**Button**

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

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

**android:text="Get Current Location"**

**android:layout\_centerInParent="true"**

**android:background="#FFFFFF"**

**android:padding="10dp"**

**android:id="@+id/getLocationBtn"**/>

<**Button**

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

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

**android:text="Show In Map"**

**android:layout\_marginTop="450dp"**

**android:layout\_marginLeft="150dp"**

**android:background="#ffffff"**

**android:onClick="maps"**

**android:padding="10dp"**/>

</**RelativeLayout**>

MAINACTIVITY.JAVA

**package com.example.myapplication;**

**import** android.content.Context;

**import** android.content.Intent;

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

**import** android.location.Address;

**import** android.location.Geocoder;

**import** android.location.Location;

**import** android.location.LocationListener;

**import** android.location.LocationManager;

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

**import** android.support.v4.content.ContextCompat;

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

**import** android.os.Bundle;

**import** android.view.View;

**import** android.widget.Button;

**import** android.widget.TextView;

**import** android.widget.Toast;

**import** java.util.List;

**import** java.util.Locale;

**public class** MainActivity **extends** AppCompatActivity **implements** LocationListener {

Button getLocationBtn;

TextView locationText;

LocationManager locationManager;

@Override

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

**super**.onCreate(savedInstanceState);

getSupportActionBar().hide();

setContentView(R.layout.activity\_main);

getLocationBtn = (Button)findViewById(R.id.getLocationBtn);

locationText = (TextView)findViewById(R.id.locationText);

**if** (ContextCompat.checkSelfPermission(getApplicationContext(), android.Manifest.permission.ACCESS\_FINE\_LOCATION) != PackageManager.PERMISSION\_GRANTED && ActivityCompat.checkSelfPermission(getApplicationContext(), android.Manifest.permission.ACCESS\_COARSE\_LOCATION) != PackageManager.PERMISSION\_GRANTED) {

ActivityCompat.requestPermissions(**this**, **new** String[]{android.Manifest.permission.ACCESS\_FINE\_LOCATION, android.Manifest.permission.ACCESS\_COARSE\_LOCATION}, 101);

}

getLocationBtn.setOnClickListener(**new** View.OnClickListener() {

@Override

**public void** onClick(View v) {

getLocation();

}

});

}

**void** getLocation() {

**try** {

locationManager = (LocationManager) getSystemService(Context.LOCATION\_SERVICE);

locationManager.requestLocationUpdates(LocationManager.NETWORK\_PROVIDER, 5000, 5, **this**);

}

**catch**(SecurityException e) {

e.printStackTrace();

}

}

@Override

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

locationText.setText(**"Latitude: "** + location.getLatitude() + **"\n** **Longitude: "** + location.getLongitude());

**try** {

Geocoder geocoder = **new** Geocoder(**this**, Locale.getDefault());

List<Address> addresses = geocoder.getFromLocation(location.getLatitude(), location.getLongitude(), 1);

locationText.setText(locationText.getText() + **"\n"**+addresses.get(0).getAddressLine(0)+**", "**+

addresses.get(0).getAddressLine(1)+**", "**+addresses.get(0).getAddressLine(2));

}**catch**(Exception e)

{

}

}

@Override

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

Toast.*makeText*(MainActivity.**this**, **"Please Enable GPS and Internet"**, Toast.***LENGTH\_SHORT***).show();

}

@Override

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

}

@Override

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

}

**public void** maps(View v){

Intent intent = **new** Intent(getApplicationContext() , MapsActivity.**class**);

startActivity(intent);

}

}

MAPSACTIVITY.JAVA

**package com.example.myapplication;**

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

**import** android.os.Bundle;

**import** com.google.android.gms.maps.CameraUpdateFactory;

**import** com.google.android.gms.maps.GoogleMap;

**import** com.google.android.gms.maps.OnMapReadyCallback;

**import** com.google.android.gms.maps.SupportMapFragment;

**import** com.google.android.gms.maps.model.LatLng;

**import** com.google.android.gms.maps.model.MarkerOptions;

**public class** MapsActivity **extends** FragmentActivity **implements** OnMapReadyCallback {

**private** GoogleMap **mMap**;

@Override

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

**super**.onCreate(savedInstanceState);

setContentView(R.layout.***activity\_maps***);

SupportMapFragment mapFragment = (SupportMapFragment) getSupportFragmentManager()

.findFragmentById(R.id.***map***);

mapFragment.getMapAsync(**this**);

}

@Override

**public void** onMapReady(GoogleMap googleMap) {

**mMap** = googleMap;

*// Add a marker in Sydney and move the camera*

LatLng location = **new** LatLng(26.8093874, 75.8611599);

**mMap**.addMarker(**new** MarkerOptions().position(location).title(**"Marker in Location"**));

**mMap**.moveCamera(CameraUpdateFactory.*newLatLng*(location));

}

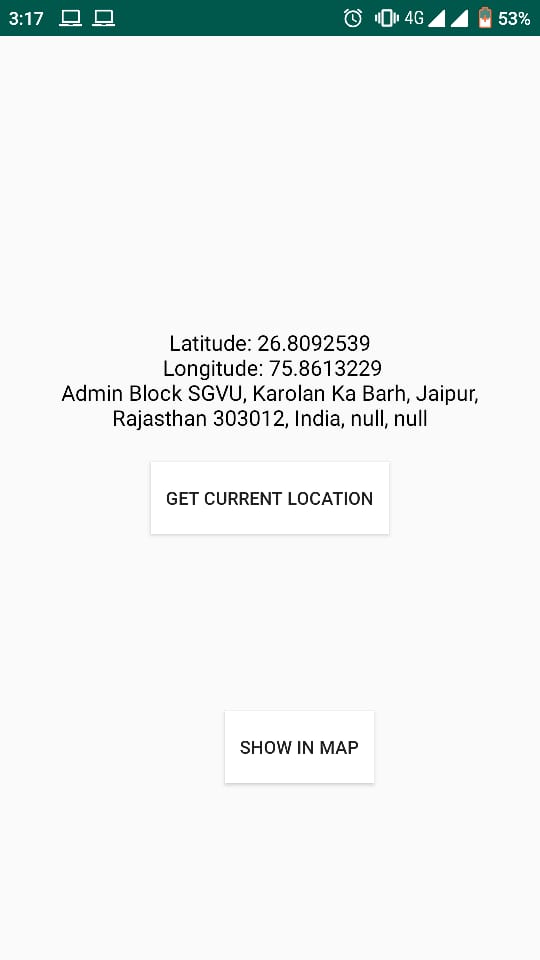
}

GOOGLEMAPSACTIVITY.XML

**<resources>**

***TODO: Before you run your application, you need a Google Maps API key.***<**string name="google\_maps\_key" templateMergeStrategy="preserve" translatable="false"**>paste your google map api key</**string**>

</**resources**>

****