ASSIGNMENT 6

Mobile Application Development

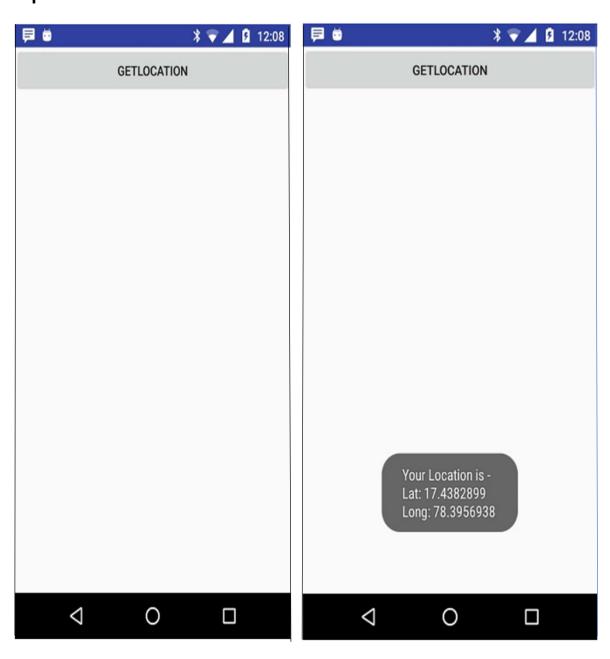
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Data: 12-04-2022

Output:



Code for Activity_main.xml:

Code for MainActivity.java:

```
package com.javacodegeeks.android.lbs;
import android.app.Activity;
import android.content.Context;
import android.location.LocationListener;
import android.location.LocationManager;
import android.os.Bundle;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.Toast;
public class LbsGeocodingActivity extends Activity {
   private static final long MINIMUM_DISTANCE_CHANGE_FOR_UPDATES = 1; // in
Meters
    private static final Long MINIMUM_TIME_BETWEEN_UPDATES = 1000; // in
Milliseconds
   protected LocationManager locationManager;
   protected Button retrieveLocationButton;
   @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);
```

```
retrieveLocationButton = (Button)
findViewById(R.id.retrieve location button);
        locationManager = (LocationManager)
getSystemService(Context.LOCATION SERVICE);
        locationManager.requestLocationUpdates(
                LocationManager.GPS_PROVIDER,
                MINIMUM TIME BETWEEN UPDATES,
                MINIMUM_DISTANCE_CHANGE_FOR_UPDATES,
                new MyLocationListener()
        );
    retrieveLocationButton.setOnClickListener(new OnClickListener() {
            @Override
            public void onClick(View v) {
                showCurrentLocation();
            }
    });
    }
    protected void showCurrentLocation() {
        Location location =
locationManager.getLastKnownLocation(LocationManager.GPS_PROVIDER);
        if (location != null) {
            String message = String.format(
                    "Current Location \n Longitude: %1$s \n Latitude: %2$s",
                    location.getLongitude(), location.getLatitude()
            );
            Toast.makeText(LbsGeocodingActivity.this, message,
                    Toast.LENGTH_LONG).show();
    private class MyLocationListener implements LocationListener {
        public void onLocationChanged(Location Location) {
            String message = String.format(
                    "New Location \n Longitude: %1$s \n Latitude: %2$s",
                    location.getLongitude(), location.getLatitude()
            );
            Toast.makeText(LbsGeocodingActivity.this, message,
Toast.LENGTH_LONG).show();
```

Code for AndroidManifest.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
      package="com.javacodegeeks.android.lbs"
      android:versionCode="1"
      android:versionName="1.0">
    <application android:icon="@drawable/icon"</pre>
android:label="@string/app_name">
        <activity android:name=".LbsGeocodingActivity"</pre>
                  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>
    <uses-permission android:name="android.permission.ACCESS FINE LOCATION" />
 <uses-permission android:name="android.permission.ACCESS MOCK LOCATION" />
 <uses-permission android:name="android.permission.ACCESS_COARSE_LOCATION" />
    <uses-sdk android:minSdkVersion="3" />
</manifest>
```