

```

1  package com.example.weatherapp.Services;
2
3  import android.Manifest;
4  import android.content.Context;
5  import android.content.pm.PackageManager;
6  import android.location.Location;
7  import android.location.LocationManager;
8
9  import androidx.core.app.ActivityCompat;
10
11  public final class LocationService {
12      public static Location getLocationWithCheckNetworkAndGPS (Context mContext) {
13          LocationManager lm = (LocationManager)
14              mContext.getSystemService (Context.LOCATION_SERVICE);
15          assert lm != null;
16          boolean isGpsEnabled = lm.isProviderEnabled (LocationManager.GPS_PROVIDER);
17          boolean isNetworkLocationEnabled = lm.isProviderEnabled (LocationManager.
18              NETWORK_PROVIDER);
19
19          Location networkLocation = null, gpsLocation = null, finalLoc = null;
20          if (isGpsEnabled)
21              if (ActivityCompat.checkSelfPermission (mContext, Manifest.permission.
22                  ACCESS_FINE_LOCATION) != PackageManager.PERMISSION_GRANTED &&
23                  ActivityCompat.checkSelfPermission (mContext, Manifest.permission.
24                      ACCESS_COARSE_LOCATION) != PackageManager.PERMISSION_GRANTED) {
25
26                  return null;
27              }
28              gpsLocation = lm.getLastKnownLocation (LocationManager.GPS_PROVIDER);
29          if (isNetworkLocationEnabled)
30              networkLocation = lm.getLastKnownLocation (LocationManager.NETWORK_PROVIDER
31              );
32
33          if (gpsLocation != null && networkLocation != null) {
34
35              //smaller the number more accurate result will
36              if (gpsLocation.getAccuracy() > networkLocation.getAccuracy())
37                  return finalLoc = networkLocation;
38              else
39                  return finalLoc = gpsLocation;
40
41          } else {
42
43              if (gpsLocation != null) {
44                  return finalLoc = gpsLocation;
45              } else if (networkLocation != null) {
46                  return finalLoc = networkLocation;
47              }
48          }
49          return finalLoc;
50      }
51  }
52

```