

```

1 public class MainActivity extends Activity {
2     private TextView status;
3     private LocationManager locationManager;
4
5     private final LocationListener locationListener = new LocationListener() {
6         @Override
7         public void onLocationChanged(final Location location) {
8             status.setText(
9                 String.format(
10                     "Location: %f, %f",
11                     location.getLongitude(),
12                     location.getLatitude()
13                 )
14             );
15         }
16     };
17
18     private final View.OnClickListener onClickListener = new View.OnClickListener() {
19         @Override
20         public void onClick(View v) {
21             try {
22                 if (/*Permission Check*/) {
23                     status.setText("Permission Not Granted");
24                     return;
25                 }
26                 locationManager.requestLocationUpdates(
27                     LocationManager.GPS_PROVIDER,
28                     1000,
29                     (float) 0.01,
30                     locationListener
31                 );
32             } catch (Exception e) {
33                 status.setText(e.toString());
34             }
35         }
36     };
37
38     @Override
39     protected void onCreate(Bundle savedInstanceState) {
40         super.onCreate(savedInstanceState);
41         setContentView(R.layout.activity_main);
42         Button button = findViewById(R.id.button);
43         status = findViewById(R.id.status);
44         locationManager = (LocationManager) getSystemService(LOCATION_SERVICE);
45         button.setOnClickListener(onClickListener);
46     }
47 }

```