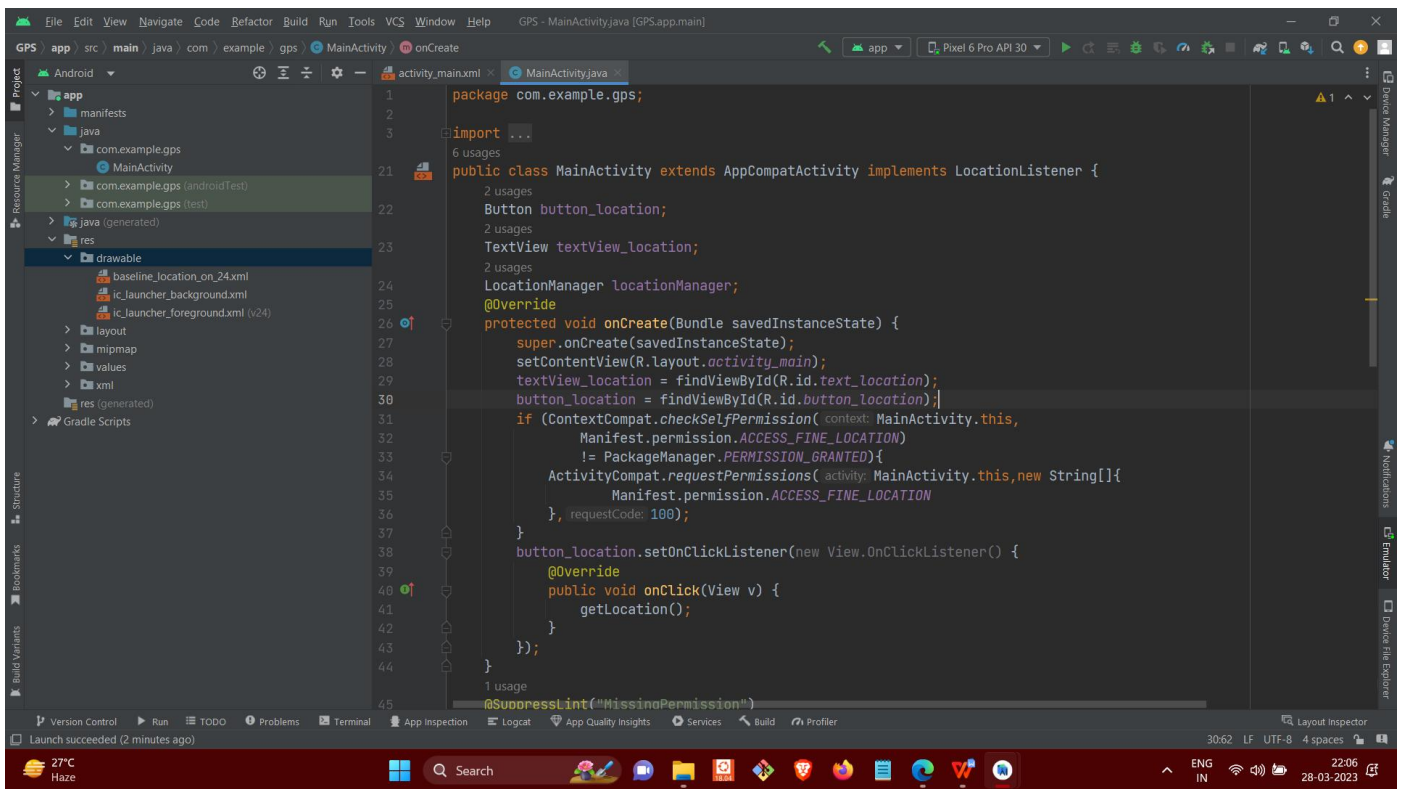
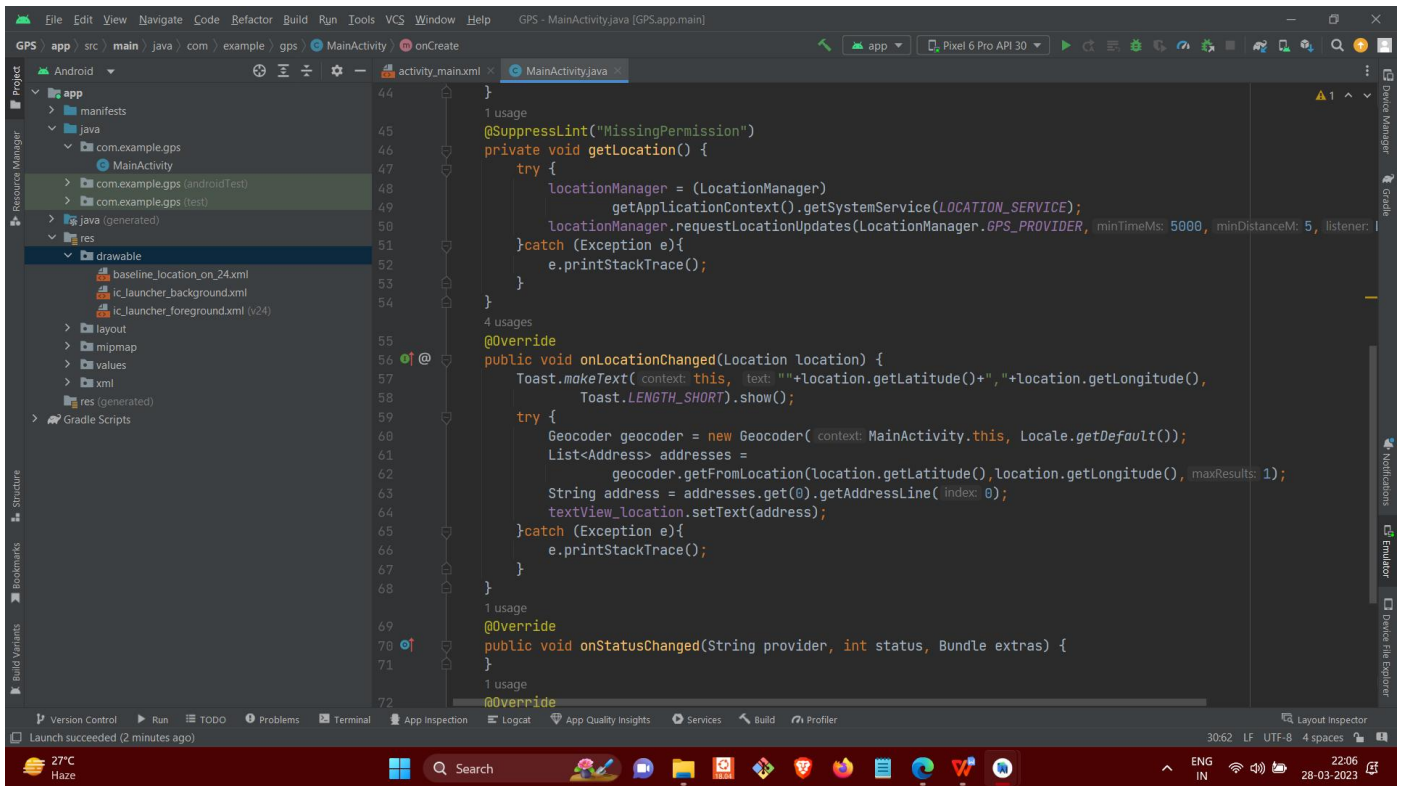


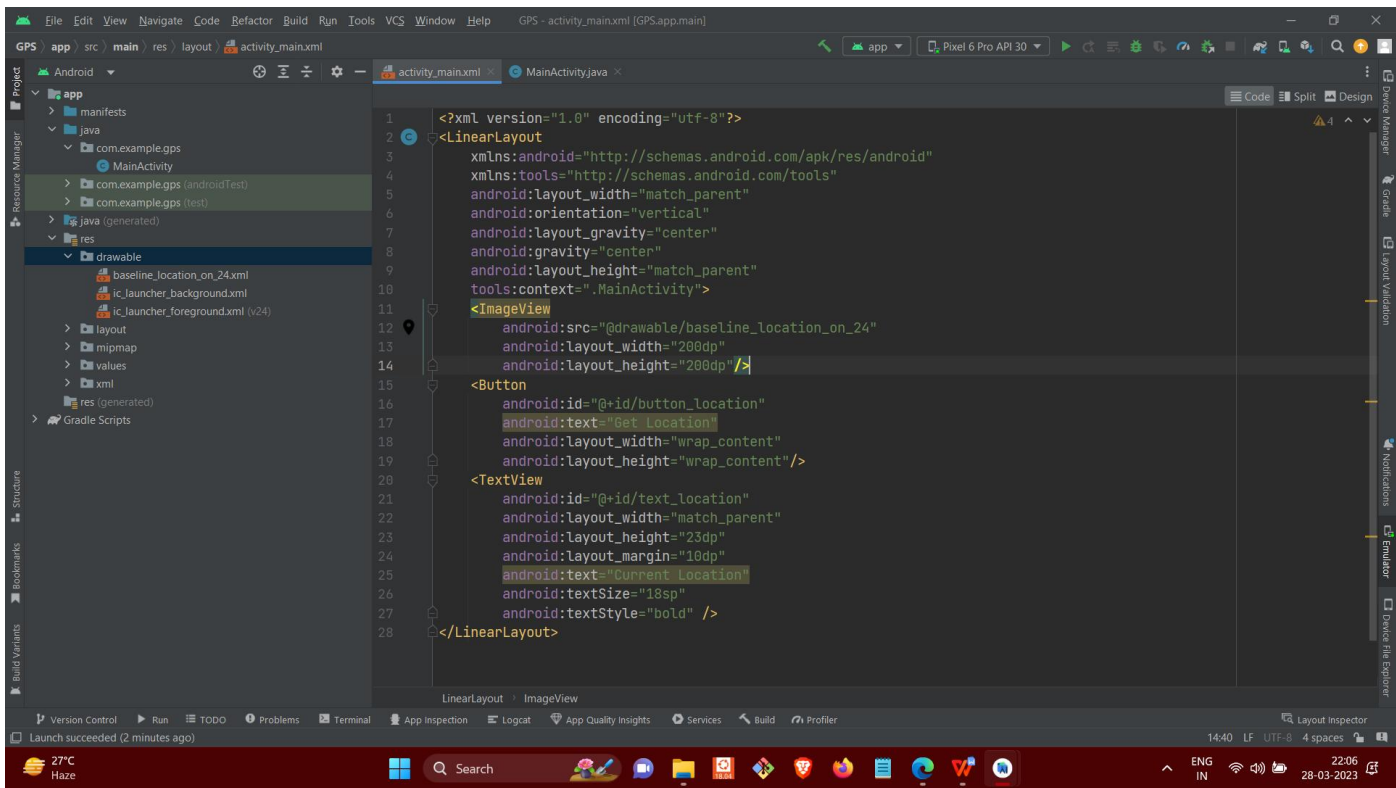
NAME : GAURAV AMARNANI.  
ROLL NO. 02.  
CLASS : D12A.



```
1 package com.example.gps;
2
3 import androidx.appcompat.app.AppCompatActivity;
4 import androidx.core.app.ActivityCompat;
5 import androidx.core.content.ContextCompat;
6 import android.Manifest;
7 import android.content.pm.PackageManager;
8 import android.os.Bundle;
9 import android.view.View;
10 import android.widget.Button;
11 import android.widget.TextView;
12 import androidx.core.app.ActivityCompat;
13 import androidx.core.content.ContextCompat;
14
15 public class MainActivity extends AppCompatActivity implements LocationListener {
16     Button button_location;
17     TextView textView_location;
18     LocationManager locationManager;
19
20     @Override
21     protected void onCreate(Bundle savedInstanceState) {
22         super.onCreate(savedInstanceState);
23         setContentView(R.layout.activity_main);
24         textView_location = findViewById(R.id.text_location);
25         button_location = findViewById(R.id.button_location);
26         if (ContextCompat.checkSelfPermission(this,
27             Manifest.permission.ACCESS_FINE_LOCATION)
28             != PackageManager.PERMISSION_GRANTED) {
29             ActivityCompat.requestPermissions(this, new String[]{
30                 Manifest.permission.ACCESS_FINE_LOCATION
31             }, 100);
32         }
33         button_location.setOnClickListener(new View.OnClickListener() {
34             @Override
35             public void onClick(View v) {
36                 getLocation();
37             }
38         });
39     }
40
41     @Override
42     @SuppressWarnings("MissingPermission")
43     private void getLocation() {
44         try {
45             locationManager = (LocationManager)
46                 getSystemService(LOCATION_SERVICE);
47             locationManager.requestLocationUpdates(
48                 LocationManager.GPS_PROVIDER, 5000, 5, this);
49         } catch (Exception e) {
50             e.printStackTrace();
51         }
52     }
53
54     @Override
55     public void onLocationChanged(Location location) {
56         Toast.makeText(this, "" + location.getLatitude() + " " + location.getLongitude(),
57             Toast.LENGTH_SHORT).show();
58         try {
59             Geocoder geocoder = new Geocoder(this, Locale.getDefault());
60             List<Address> addresses =
61                 geocoder.getFromLocation(location.getLatitude(), location.getLongitude(), 1);
62             String address = addresses.get(0).getAddressLine(0);
63             textView_location.setText(address);
64         } catch (Exception e) {
65             e.printStackTrace();
66         }
67     }
68
69     @Override
70     public void onStatusChanged(String provider, int status, Bundle extras) {
71     }
72
73     @Override
74 }
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## OUTPUT:

