```
<androidx.coordinatorlayout.widget.CoordinatorLayout</pre>
  android:layout width="match parent"
  android:layout height="match parent">
  <com.google.android.material.appbar.AppBarLayout</pre>
      android:layout height="wrap content">
      <androidx.appcompat.widget.Toolbar</pre>
           android:layout width="match parent"
           android:layout height="?attr/actionBarSize"
           android:titleTextColor="@android:color/white"
           app:title="Menu Demo" />
   <LinearLayout
       android:layout width="match parent"
      android:layout height="match parent"
      android:orientation="vertical"
      android:gravity="center horizontal"
      android:layout marginTop="56dp"> <!-- Leave space for Toolbar -->
           android:layout width="wrap content"
           android:layout height="wrap content"
           android:layout marginTop="32dp" />
           android:layout width="wrap content"
           android:layout height="wrap content"
           android:text="Show Popup Menu"
           android:layout marginTop="32dp" />
```

MainActivity.java

```
package com.example.ad5m2;
import android.app.AlertDialog;
import android.app.ProgressDialog;
import android.util.Log;
import android.view.ContextMenu;
import android.view.MenuItem;
import android.view.View;
import android.widget.Button;
import android.widget.PopupMenu;
import android.widget.Toast;
import androidx.appcompat.widget.Toolbar;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
  protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
      EdgeToEdge.enable(this);
      setContentView(R.layout.activity main);
      setSupportActionBar(toolbar);
      buttonShowAlertDialog= findViewById(R.id.buttonShowAlertDialog);
      buttonShowAlertDialog.setOnClickListener(v -> showAlertDialog());
      Button buttonShowPopupMenu = findViewById(R.id.buttonShowPopupMenu);
```

```
buttonShowPopupMenu.setOnClickListener(this::showPopupMenu);
      Button buttonShowContextMenu = findViewById(R.id.buttonShowContextMenu);
      registerForContextMenu(buttonShowContextMenu); // Register the button
      AlertDialog.Builder builder = new
AlertDialog.Builder(MainActivity.this);
               .setMessage("Do you want to continue?")
                   Toast.makeText(MainActivity.this, "Yes clicked",
Toast.LENGTH SHORT).show();
               .setNegativeButton("No", (dialog, which) -> {
                   Toast.makeText(MainActivity.this, "No clicked",
Toast.LENGTH SHORT).show();
               .create()
               .show();
  public boolean onCreateOptionsMenu(android.view.Menu menu) {
       int id = item.getItemId();
```

```
return super.onOptionsItemSelected(item);
  private void showPopupMenu(View view) {
      PopupMenu popupMenu = new PopupMenu (MainActivity.this, view);
      getMenuInflater().inflate(R.menu.menu popup, popupMenu.getMenu());
      popupMenu.setOnMenuItemClickListener(item -> {
           if (item.getItemId() == R.id.action edit) {
Toast.LENGTH SHORT).show();
Toast.LENGTH SHORT).show();
      popupMenu.show();
  public void onCreateContextMenu (ContextMenu menu, View v,
ContextMenu.ContextMenuInfo menuInfo) {
      super.onCreateContextMenu(menu, v, menuInfo);
      getMenuInflater().inflate(R.menu.menu context, menu);
  public boolean onContextItemSelected(MenuItem item) {
       if (item.getItemId() == R.id.action copy) {
       } else if (item.getItemId() == R.id.action paste) {
```

```
return true; // Indicates the event was handled
} else {
    return super.onContextItemSelected(item); // Default case calls the
parent method
}
}
```

Res -> menu -> menu_context.xml

Res -> menu -> menu popup.xml

Res -> menu -> menu options.xm