

MainActivity.java

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package com.example.menuapp;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import androidx.appcompat.widget.PopupMenu;
import android.view.ContextMenu;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.widget.TextView;
import android.widget.Toast;

import static android.os.Build.VERSION_CODES.N;

public class MainActivity extends AppCompatActivity implements
PopupMenu.OnMenuItemClickListener {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        //Registering for Context Menu
        registerForContextMenu((TextView) findViewById(R.id.t1));
    }

    @Override
    public boolean onCreateOptionsMenu(Menu menu) {

        MenuInflater mi = getMenuInflater();
        mi.inflate(R.menu.menu_file, menu);
        return true;
    }

    @Override
    public boolean onOptionsItemSelected(MenuItem item) {
        int mid = item.getItemId();
        if (mid == R.id.i1) {
            Toast.makeText(this, "Cicked Main Menu",
Toast.LENGTH_SHORT).show();
        } else if (mid == R.id.i2) {
            Toast.makeText(this, "I am sub-menu 1",
Toast.LENGTH_SHORT).show();
        } else if (mid == R.id.i3) {
            Toast.makeText(this, "I am sub-menu 2",
Toast.LENGTH_SHORT).show();
        }
    }
}
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        return super.onOptionsItemSelected(item);
    }

    @Override
    public void onCreateContextMenu(ContextMenu menu, View v,
ContextMenuItem menuInfo) {
        super.onCreateContextMenu(menu, v, menuInfo);

        MenuInflater mi = getMenuInflater();
        mi.inflate(R.menu.menu_file, menu);
    }

    @Override
    public boolean onContextItemSelected(MenuItem item) {
        int mid = item.getItemId();
        if (mid == R.id.i1) {
            Toast.makeText(this, "Cicked Main Menu",
Toast.LENGTH_SHORT).show();
        } else if (mid == R.id.i2) {
            Toast.makeText(this, "I am sub-menu 1",
Toast.LENGTH_SHORT).show();
        } else if (mid == R.id.i3) {
            Toast.makeText(this, "I am sub-menu 2",
Toast.LENGTH_SHORT).show();
        }

        return super.onContextItemSelected(item);
    }

    public void popup(View v) {
        PopupMenu popup = new PopupMenu(this, v);
        MenuInflater mi = getMenuInflater();
        mi.inflate(R.menu.menu_file, popup.getMenu());
        popup.show();
    }

    @Override
    public boolean onOptionsItemSelected(MenuItem item) {
        int mid = item.getItemId();
        if (mid == R.id.i1) {
            Toast.makeText(this, "Cicked Main Menu",
Toast.LENGTH_SHORT).show();
        } else if (mid == R.id.i2) {
            Toast.makeText(this, "I am sub-menu 1",
Toast.LENGTH_SHORT).show();
        } else if (mid == R.id.i3) {
            Toast.makeText(this, "I am sub-menu 2",

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Toast.LENGTH_SHORT).show();
    }
    return true;
}
}

```

activity main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context="com.example.menuapp.MainActivity">

    <TextView
        android:id="@+id/t1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="I am context menu"
        android:paddingBottom="30dp"
        android:textAllCaps="true"
        android:textSize="20sp"
        />

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:onClick="pop"
        android:text="I am Pop Menu"
        android:textAllCaps="true"
        />
</LinearLayout>

```

menu file.xml

```

<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">

    <item android:id="@+id/i1"
        android:title="Click me to see sub-menu"
        android:icon="@drawable/baseline_album_24" >

        <!-- "item" submenu -->
        <menu>
            <item android:id="@+id/i2"

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        android:title="subitem 1"
        android:icon="@drawable/baseline_album_24"/>
    <item android:id="@+id/i3"
        android:title="subitem 2"
        android:icon="@drawable/baseline_album_24" />
    </menu>
</item>
</menu>
```