Example – Context Menu (1)

Android context menu appears when user presses a long click on the element. It is also known as floating menu.

It affects the selected content while doing action on it.

It doesn't support item shortcuts and icons.

Context Menu – to change background colour (without adapter and adding menu items through the java code)

1. Create a new project - Empty Activity

2. activity_main.xml

   Change the id of ConstraintLayout to CL (or anything else).
   Change the id of the TextView to Clickme (or anything else).
   Change the text of Clickme to Long Click.

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
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:id="@+id/CL"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/clickMe"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Long Click!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

3. MainActivity.java

```java
package com.example.examplecontextmenu;

import androidx.appcompat.app.AppCompatActivity;
import androidx.constraintlayout.widget.ConstraintLayout;

import android.graphics.Color;
import android.os.Bundle;
import android.view.ContextMenu;
import android.view.MenuItem;
import android.view.View;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {
TextView clickbutton;
ConstraintLayout constraintLayout;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        clickbutton = findViewById(R.id.clickMe);
        constraintLayout = findViewById(R.id.CL);
        registerForContextMenu(clickbutton);
    }

    public void onCreateContextMenu(ContextMenu menu, View v,
ContextMenu.ContextMenuInfo menuInfo){
        super.onCreateContextMenu(menu,v,menuInfo);
        menu.setHeaderTitle("Choose a colour");
        menu.add(0,v.getId(),0,"Yellow");
        menu.add(0,v.getId(),0,"Gray");
        menu.add(0,v.getId(),0,"Cyan");
    }

    public boolean onContextItemSelected(MenuItem item){
        if (item.getTitle() == "Yellow"){
        constraintLayout.setBackgroundColor(Color.YELLOW);
        }else if (item.getTitle() == "Gray"){
            constraintLayout.setBackgroundColor(Color.GRAY);
        } else if (item.getTitle() == "Cyan") {
            constraintLayout.setBackgroundColor(Color.CYAN);
        }
        return true;
    }
}
```

Context Menu – (with adapter – adding menu items through an array using ListView)

1. Create a new project - Empty Activity

2. Create a menu resource directory – Right click on res folder →
    new → Android Resource Directory. Change the resource type
    to menu in the dropdown list. Click on OK.

3. Create the menu resource file - Right click on menu folder →
    new → Android Resource File. Give the name as menu_main.
    Click on OK.

4. activity_main.xml

    Change the text of the TextView to Context Menu ListView.
    Remove the bottom constraint of TextView and set a top
    margin of 50.
    Drag a ListView from Legacy in the palette. Add a top margin of
    100 and add a left constraint. Change the id of the ListView to
    namelist. (You could optionally add a margin of 50 to the left,
    right and bottom).

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
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"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="50dp"
```

```xml
        android:text="Context Menu ListView"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <ListView
        android:id="@+id/namelist"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginStart="50dp"
        android:layout_marginLeft="50dp"
        android:layout_marginTop="100dp"
        android:layout_marginEnd="50dp"
        android:layout_marginRight="50dp"
        android:layout_marginBottom="50dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

5. menu_main.xml

   Create the menu items.
   Drag 2 menu items under the menu component.
   Change the title to Call and SMS
   Change their id to call and sms

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

    <item
        android:id="@+id/call"
        android:title="Call" />
    <item
        android:id="@+id/sms"
        android:title="SMS" />
</menu>
```

6. mainActivity.java

```java
package com.example.examplecontextmenu1;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.ContextMenu;
import android.view.MenuItem;
import android.view.View;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    ListView namelist;
    String contacts[] =
{"Avani","Prajoti","Edwin","Parmanand","Jayada", "Gaurpriya",
"Sandra"};

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        namelist = findViewById(R.id.namelist);
        ArrayAdapter<String> adapter = new ArrayAdapter<>(this,
android.R.layout.simple_list_item_1,contacts);
        namelist.setAdapter(adapter);
        registerForContextMenu(namelist);
    }

    @Override
    public void onCreateContextMenu(ContextMenu menu, View v,
ContextMenu.ContextMenuInfo menuInfo){
        getMenuInflater().inflate(R.menu.menu_main, menu);
        menu.setHeaderTitle("Choose the action");
    }

    @Override
    public boolean onContextItemSelected (MenuItem item){
        if (item.getItemId() == R.id.call){
            Toast.makeText(getApplicationContext(),"Call code",
Toast.LENGTH_LONG).show();
        } else if (item.getItemId() == R.id.sms){
            Toast.makeText(getApplicationContext(),"SMS code",
Toast.LENGTH_LONG).show();
```

```
        } else{
            return false;
        }
        return true;
    }
}
```