

For Popup Menu

Code

1. activity_main.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="com.popup.MainActivity">

    <Button
        android:id="@+id/clickBtn"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:background="#0F9D58"
        android:text="@string/click_me"
        android:textColor="#ffffff"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

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

2. MainActivity.java

```
package com.popup;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.MenuItem;
import android.view.View;
import android.widget.Button;
```

```

import android.widget.PopupMenu;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        // Referencing and Initializing the button

        Button button = (Button) findViewById(R.id.clickBtn);

        // Setting onClick behavior to the button

        button.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View view) {

                // Initializing the popup menu and giving the reference as current context

                PopupMenu popupMenu = new PopupMenu(MainActivity.this, button);

                // Inflating popup menu from popup_menu.xml file

                popupMenu.getMenuInflater().inflate(R.menu.popup_menu, popupMenu.getMenu());

                popupMenu.setOnMenuItemClickListener(new PopupMenu.OnMenuItemClickListener() {

                    @Override

                    public boolean onMenuItemClick(MenuItem menuItem) {

                        // Toast message on menu item clicked

                        Toast.makeText(MainActivity.this, "You Clicked " + menuItem.getTitle(),
Toast.LENGTH_SHORT).show();

                        return true;

                    }

                });

                // Showing the popup menu

                popupMenu.show();

            }

        });

    }

}

```

3. colors.xml

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="purple_200">#FFBB86FC</color>
    <color name="purple_500">#FF6200EE</color>
    <color name="purple_700">#FF3700B3</color>
    <color name="teal_200">#FF03DAC5</color>
    <color name="teal_700">#FF018786</color>
    <color name="black">#FF0000</color>
    <color name="white">#FFFFFF</color>
</resources>
```

4. popup_menu.xml

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
    <item
        android:id="@+id/java"
        android:title="Java" />

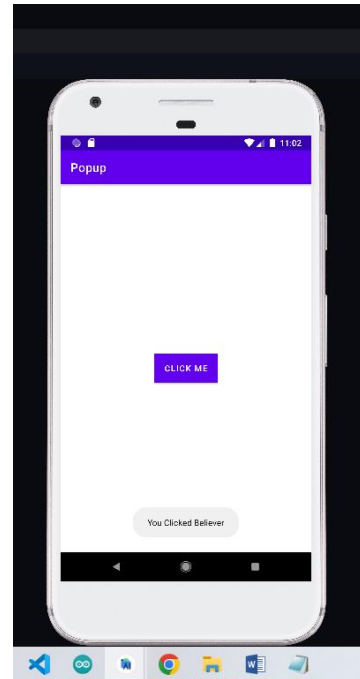
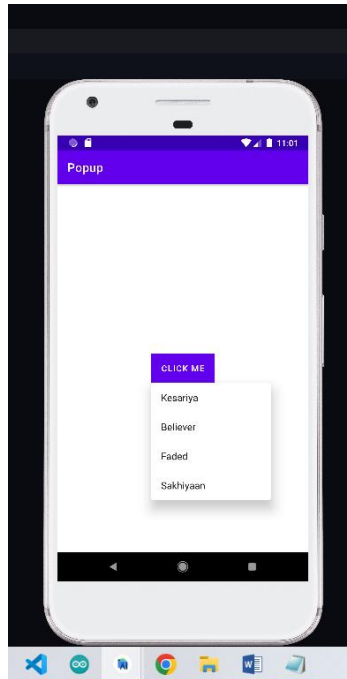
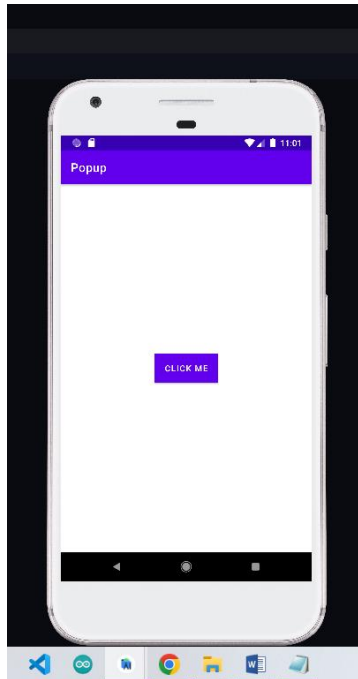
    <item
        android:id="@+id/kotlin"
        android:title="Kotlin" />

    <item
        android:id="@+id/android"
        android:title="Android" />

    <item
        android:id="@+id/react_native"
        android:title="React Native" />

</menu>
```

Output for Popup Menu



For ContextMenu

Code

1. activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>

<!-- Relative Layout to display all the details -->

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/relLayout"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#fff"
    android:padding="16dp"
    tools:context="com.example.context_menu.MainActivity">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="20dp"
        android:text="@string/long_press_me"
        android:textColor="#000"
        android:textSize="20sp"
        android:textStyle="bold" />

</RelativeLayout>
```

2. MainActivity.java

```
package com.example.context_menu;

import android.graphics.Color;
import android.os.Bundle;
import android.view.ContextMenu;
import android.view.MenuItem;
import android.view.View;
import android.widget.RelativeLayout;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {
    TextView textView;
    RelativeLayout relativeLayout;

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

        // Link those objects with their respective id's that we have given in .XML file
        textView = (TextView) findViewById(R.id.textView);
        relativeLayout = (RelativeLayout) findViewById(R.id.relLayout);

        // here you have to register a view for context menu you can register any view
        // like listview, image view, textview, button etc
        registerForContextMenu(textView);
    }
}
```

@Override

```
public void onCreateContextMenu(ContextMenu menu, View v, ContextMenu.ContextMenuInfo menuInfo) {
```

```
    super.onCreateContextMenu(menu, v, menuInfo);
```

```
    // you can set menu header with title icon etc
```

```
    menu.setHeaderTitle("Choose a color");
```

```
    // add menu items
```

```
    menu.add(0, v.getId(), 0, "Black");
```

```
    menu.add(0, v.getId(), 0, "Gray");
```

```
    menu.add(0, v.getId(), 0, "Cyan");
```

```
}
```

```
// menu item select listener
```

@Override

```
public boolean onContextItemSelected(MenuItem item) {
```

```
    if (item.getTitle() == "Black") {
```

```
        relativeLayout.setBackgroundColor(Color.BLACK);
```

```
    } else if (item.getTitle() == "Gray") {
```

```
        relativeLayout.setBackgroundColor(Color.GRAY);
```

```
    } else if (item.getTitle() == "Cyan") {
```

```
        relativeLayout.setBackgroundColor(Color.CYAN);
```

```
    }
```

```
    return true;
```

```
}
```

```
}
```

Output for Context Menu

