**Practical 6:**

**Code:**

**1) Java file codes:**

**MainActivity.java**

package com.example.practical8;

import android.os.Bundle;

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.app.AlertDialog;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

Button btnAlertDialog, btnPopupMenu, btnContextMenu;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

btnPopupMenu = findViewById(R.id.btnPopupMenu);

btnContextMenu = findViewById(R.id.btnContextMenu);

btnPopupMenu.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

showPopupMenu(v);

}

});

registerForContextMenu(btnContextMenu);

}

private void showPopupMenu(View v) {

PopupMenu popupMenu = new PopupMenu(this, v);

popupMenu.getMenuInflater().inflate(R.menu.popup\_menu, popupMenu.getMenu());

popupMenu.setOnMenuItemClickListener(new PopupMenu.OnMenuItemClickListener() {

@Override

public boolean onMenuItemClick(MenuItem item) {

switch (item.getItemId()) {

case R.id.popup\_item1:

Toast.makeText(MainActivity.this, "Popup Item 1 clicked", Toast.LENGTH\_SHORT).show();

return true;

case R.id.popup\_item2:

Toast.makeText(MainActivity.this, "Popup Item 2 clicked", Toast.LENGTH\_SHORT).show();

return true;

default:

return false;

}

}

});

popupMenu.show();

}

@Override

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

super.onCreateContextMenu(menu, v, menuInfo);

getMenuInflater().inflate(R.menu.context\_menu, menu);

}

@Override

public boolean onContextItemSelected(MenuItem item) {

switch (item.getItemId()) {

case R.id.option1:

Toast.makeText(this, "Option 1 clicked", Toast.LENGTH\_SHORT).show();

return true;

case R.id.option2:

Toast.makeText(this, "Option 2 clicked", Toast.LENGTH\_SHORT).show();

return true;

default:

return super.onContextItemSelected(item);

}

}

@Override

public boolean onCreateOptionsMenu(android.view.Menu menu) {

getMenuInflater().inflate(R.menu.options\_menu, menu);

return true;

}

@Override

public boolean onOptionsItemSelected(MenuItem item) {

switch (item.getItemId()) {

case R.id.option\_settings:

Toast.makeText(this, "Settings clicked", Toast.LENGTH\_SHORT).show();

return true;

case R.id.option\_about:

Toast.makeText(this, "About clicked", Toast.LENGTH\_SHORT).show();

return true;

default:

return super.onOptionsItemSelected(item);

}

}

}

**2) xml file codes:**

**activity\_main.xml**

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

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<Button

android:id="@+id/btnPopupMenu"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="292dp"

android:text="Show Popup Menu" />

<Button

android:id="@+id/btnContextMenu"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@id/btnPopupMenu"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="20dp"

android:text="Show Context Menu" />

</RelativeLayout>

**popup\_menu.xml**

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

<menu xmlns:android="http://schemas.android.com/apk/res/android">

<item

android:id="@+id/popup\_item1"

android:title="Entc"/>

<item

android:id="@+id/popup\_item2"

android:title="Mechanical"/>

</menu>

**context\_menu.xml**

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

<menu xmlns:android="http://schemas.android.com/apk/res/android">

<item

android:id="@+id/option1"

android:title="FE"/>

<item

android:id="@+id/option2"

android:title="SE"/>

</menu>

**options\_menu.xml**

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

<menu xmlns:android="http://schemas.android.com/apk/res/android">

<item

android:id="@+id/option\_settings"

android:title="Settings"/>

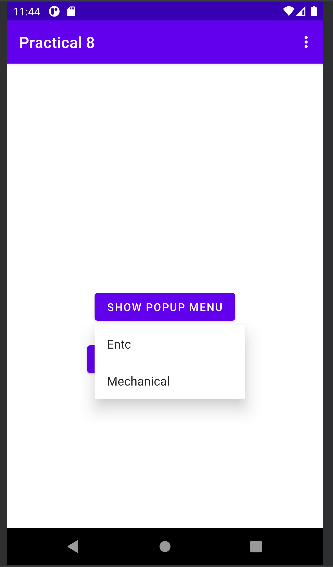
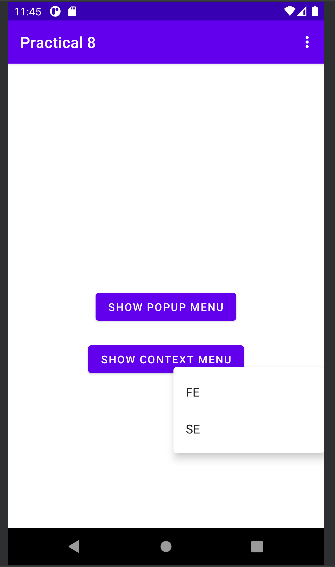
<item

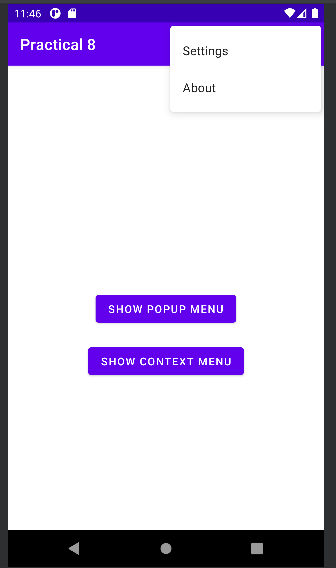
android:id="@+id/option\_about"

android:title="About"/>

</menu>

**Output:**

** **

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