NAME :AKSHATA

ROLLNO:20211CSE0208

SECTION:5CSE-04

CREATION OF APPLICATION USING OPTION MENU

1.activity_xml:

```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"
    android:background="#84FFFF"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/menuText"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.526"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.376" />

    <androidx.appcompat.widget.Toolbar
        android:id="@+id/toolbar"
        android:layout_width="406dp"
        android:layout_height="77dp"
        android:background="?attr/colorPrimary"
        android:minHeight="?attr/actionBarSize"
        android:theme="?attr/actionBarTheme"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.4"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.0" />

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

2.menu1_xml:

```xml
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto">
<item
    android:id="@+id/item1"
    android:icon="@android:drawable/ic_menu_search"
    android:title="Search"
    app:showAsAction="always"
```

```xml
/>
    <item
        android:id="@+id/item2"
        android:title="Setting"
        app:showAsAction="always">

    <menu>
        <item
        android:id="@+id/item3"
        android:title="submenu" />
        <item
            android:id="@+id/item4"
            android:title="submenu2" />

    </menu>

    </item>
        <item
            android:id="@+id/item5"
            android:title="Payment"/>
</menu>
```

3.MainActivity.java:

```java
package com.example.inflater_09_10;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.widget.TextView;
//delete toolbar import
import androidx.appcompat.widget.Toolbar;//we hv to import this for br
public class MainActivity extends AppCompatActivity {
    TextView tv;
    Toolbar br;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        tv = findViewById(R.id.menuText);
        br = findViewById(R.id.toolbar);
        setSupportActionBar(br);
    }

    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        MenuInflater inflater = getMenuInflater();
        inflater.inflate(R.menu.menu1, menu);//we hv gv xml file name as
menu1(2d prameter),menu(3rd paraeter)
        return true;//change to true
    }

    @Override
```

```java
    public boolean onOptionsItemSelected(@NonNull MenuItem item) {
        if (item.getItemId() == R.id.item1){
            tv.setText("Search");
            return true;
        } else if (item.getItemId()==R.id.item2) {
            tv.setText("settings");
        } else if (item.getItemId()==R.id.item3) {
            tv.setText("submenu1");
        }
        return super.onOptionsItemSelected(item);
    }
}
//it is xml we hv to inflate to bring menu option, we hv to override .so
for (clt+o) outside  oncreate option menu
//onoptionsmenu selected
```

4.AndroidManifest.xml:

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

    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.AppCompat.Light.NoActionBar"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER"
/>
            </intent-filter>
        </activity>
    </application>

</manifest>
```

5.output: