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**Roll No: 21**

**Batch: B**

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ANDROID LAB

**Experiment No.: 22**

**Aim**

Write a program to Implement Options Menu

**Procedure**

**Acitivity\_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=".MainActivity">  
<TextView  
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\_constraintStart\_toStartOf="parent"  
app:layout\_constraintTop\_toTopOf="parent" />  
</androidx.constraintlayout.widget.ConstraintLayout>

**MainActivity.java**

package com.example.optionmenuapplication;  
import androidx.annotation.NonNull;  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.appcompat.view.menu.MenuBuilder;  
import android.annotation.SuppressLint;  
import android.os.Bundle;  
import android.view.Menu;  
import android.view.MenuInflater;  
import android.view.MenuItem;  
import android.widget.Toast;  
public class MainActivity extends AppCompatActivity {  
@Override  
protected void onCreate(Bundle savedInstanceState) {  
super.onCreate(savedInstanceState);  
setContentView(R.layout.*activity\_main*);  
}  
@SuppressLint("RestrictedApi")  
@Override  
public boolean onCreateOptionsMenu(Menu menu) {  
MenuInflater inflater = getMenuInflater();  
inflater.inflate(R.menu.*options\_menu*,menu);  
if(menu instanceof MenuBuilder){  
MenuBuilder m = (MenuBuilder) menu;  
m.setOptionalIconsVisible(true);  
}  
return super.onCreateOptionsMenu(menu);  
}  
@Override  
public boolean onOptionsItemSelected(@NonNull MenuItem item) {  
Toast.*makeText*(this, "Selected Item: " + item.getTitle(),  
Toast.*LENGTH\_SHORT*).show();  
switch (item.getItemId()) {  
case R.id.*search\_item*:  
return true;  
case R.id.*upload\_item*:  
return true;  
case R.id.*copy\_item*:  
return true;  
case R.id.*print\_item*:  
return true;  
case R.id.*share\_item*:  
return true;  
case R.id.*bookmark\_item*:  
return true;  
default:  
return super.onOptionsItemSelected(item);  
}  
}  
}

**option\_menu.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"  
xmlns:tools="http://schemas.android.com/tools"  
tools:context=".MainActivity">  
<item android:id="@+id/search\_item"  
android:title="Search"  
android:icon="@drawable/ic\_baseline\_search\_24" />  
<item android:id="@+id/upload\_item"  
android:icon="@drawable/ic\_baseline\_cloud\_upload\_24"  
android:title="Upload" />  
<item android:id="@+id/copy\_item"  
android:icon="@drawable/ic\_baseline\_content\_copy\_24"  
android:title="Copy" />  
<item android:id="@+id/print\_item"  
android:icon="@drawable/ic\_baseline\_print\_24"  
android:title="Print" />  
<item android:id="@+id/share\_item"  
android:icon="@drawable/ic\_baseline\_share\_24"  
android:title="Share" />  
<item android:id="@+id/bookmark\_item"  
android:icon="@drawable/ic\_baseline\_bookmark\_border\_24"  
android:title="BookMark" />  
</menu>