

## CO 3

### 2. Implement Options Menu to navigate to activities

#### XML 1

```
<?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_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

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

### **Sampleview.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:title="item1"/>
  <item android:id="@+id/item2"
        android:title="item2"
        app:showAsAction="ifRoom"
        android:icon="@drawable/ic_launcher_background"/>
  <item android:id="@+id/item3"
        android:title="item3"
        app:showAsAction="ifRoom">
    <menu>
      <item android:id="@+id/subitem1"
            android:title="Sub1"/>
      <item android:id="@+id/subitem2"
            android:title="Sub2"/>
    </menu>
  </item>
</menu>
```

### **XML 2**

```
<?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=".MainActivity2">

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

## **JAVA 1**

```
package com.example.optionsmenu;

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

import android.content.Intent;
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);
    }

    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
```

```
MenuInflater inflater=getMenuInflater();  
inflater.inflate(R.menu.samplemenu,menu);  
return true;  
}
```

```
@Override
```

```
public boolean onOptionsItemSelected(@NonNull MenuItem item) {  
    switch (item.getItemId())  
    {  
        case R.id.item1:  
            Intent i=new Intent(this,MainActivity2.class);  
            startActivity(i);  
            break;  
        case R.id.item2:  
            Toast.makeText(getApplicationContext(),"item2",Toast.LENGTH_SHORT).show();  
            break;  
        case R.id.subitem1:  
            Toast.makeText(getApplicationContext(),"subitem1",Toast.LENGTH_SHORT).show();  
            break;  
        case R.id.subitem2:  
            Toast.makeText(getApplicationContext(),"subitem2",Toast.LENGTH_SHORT).show();  
            break;  
    }  
    return true;  
}
```

## JAVA 2

```
package com.example.optionsmenu;

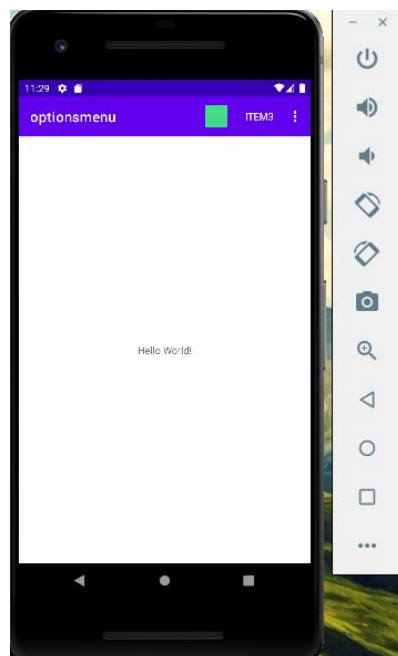
import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

public class MainActivity2 extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
    }
}
```

## OUTPUT



### 3. Develop an application that uses ArrayAdapter with ListView

#### XML

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

<LinearLayout 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:orientation="vertical"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Week Days"
        android:textSize="20sp"
        android:textColor="#4A56C3"/>

    <ListView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:id="@+id/iv"
        android:divider="@color/purple_500"
        android:dividerHeight="3dp"/>

</LinearLayout>
```

### textview.xml

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

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

    android:layout_width="match_parent"

    android:layout_height="match_parent"

    android:textColor="#B80909"

    android:textStyle="bold"

    android:textSize="25dp">

</TextView>
```

### JAVA

```
package com.example.array;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    String s[]={"Monday","Tuesday","Wednesday","Thursday","Friday","Saturday","Sunday"};

    ListView lv;
```

@Override

```
protected void onCreate(Bundle savedInstanceState) {
```

```
    super.onCreate(savedInstanceState);
```

```
    setContentView(R.layout.activity_main);
```

```
    lv=(ListView) findViewById(R.id.lv);
```

```
    ArrayAdapter<String>adapter=new ArrayAdapter<String>(this,R.layout.textview,s);
```

```
    lv.setAdapter(adapter);
```

```
    lv.setOnItemClickListener(new AdapterView.OnItemClickListener() {
```

```
        @Override
```

```
        public void onItemClick(AdapterView<?> parent, View view, int position, long id) {
```

```
            Toast.makeText(getApplicationContext(),lv.getItemAtPosition(position).toString(),Toast.LENGTH_SHORT).show();
```

```
        }
```

```
    });
```

```
}
```

```
}
```

## **OUTPUT**

