



Experiment 3.3

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1. Aim:

Design the Android application using menus and action bar.

2. Objective:

We are going to create a basic application with menu that is having multiple options. Note that we are going to implement this project using the Java language.

3. Steps:

Step1: Create a new project

Step2: Select the language as java

Step3: Select the API level of 26(android OREO 8.0)

Step4: Click on the ok button. Wait until UI displays.

Step5: Then clean the project. Because gradle may not build.

Step6: After that, we can see two code files. One is activity_main.xml and MainActivity.java.

Step7: Go to the app->res->menu create a option_menu.xml

Step8: In MainActivity.java paste the below code for choosing option

Step9: Run

Code:

options_menu.xml

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

```
                <item android:id="@+id/search_item"
android:title="Search" />
                <item android:id="@+id/upload_item"
android:title="Upload" />
                <item android:id="@+id/copy_item"
android:title="Copy" />
                <item android:id="@+id/print_item"
android:title="Print" />
                <item android:id="@+id/share_item"
android:title="Share" />
                <item android:id="@+id/bookmark_item"
android:title="BookMark" />
</menu>
```

MainActivity.java

```
package com.example.optionsmenu;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle; import
android.view.Menu; 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) {
        getMenuInflater()
```

```
.inflate(R.menu.options_menu, menu);
return true;
}
@Override
public boolean onOptionsItemSelected(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);
    }
}
```

4. Output:

