

Experiment No-9

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Subject Name: MAD Lab

Aim: Design the Android application using menus and action bar.

MainActivity.java

```
package com.example.exp_9; import
android.os.Bundle; import
android.view.MenuItem; import
android.view.View; import
android.widget.PopupMenu;
import android.widget.Toast;
```

```
import androidx.appcompat.app.AppCompatActivity; public class MainActivity extends AppCompatActivity
```

```
implements PopupMenu.OnMenuItemClickListener {
```

```
    @Override
```

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

```
    public void showPopup(View v) {
        PopupMenu popup = new PopupMenu(this, v);
        popup.setOnMenuItemClickListener((PopupMenu.OnMenuItemClickListener) this);
        popup.inflate(R.menu.popup_menu); popup.show();
    }
```

```
    @Override
```

```
    public boolean onOptionsItemSelected(MenuItem item) {
switch (item.getItemId()) { case R.id.item1:
        Toast.makeText(this, "Item 1 clicked", Toast.LENGTH_SHORT).show(); return
true; case R.id.item2:
```

```

        Toast.makeText(this, "Item 2 clicked", Toast.LENGTH_SHORT).show(); return
true;
case R.id.item3:
    Toast.makeText(this, "Item 3 clicked", Toast.LENGTH_SHORT).show(); return
true; case R.id.item4:
    Toast.makeText(this, "Item 4 clicked", Toast.LENGTH_SHORT).show();
return true;         default:         return false;
    }
}
}

```

Activity_main.xml

```

<?xml version="1.0" encoding="utf-8"?> <android.support.constraint.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="com.example.application.popupproject.MainActivity">

    <Button    android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:onClick="showPopup"    android:text="show
popup" app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
app:layout_constraintTop_toTopOf="parent" />

</android.support.constraint.ConstraintLayout>

```

MENU.XML

```

<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
    <item android:id="@+id/item1"
android:title="Item 1" /> <item

        android:id="@+id/item2"
android:title="Item 2" />

```

```
<item
    android:id="@+id/item3"
android:title="Item 3" />
<item
    android:id="@+id/item4"
    android:title="Item 4" />

</menu>
```

OUTPUT:



LEARNING OUTCOMES:

- Learned about Menus in android.
- Learned how to implement nested menus.
- Learned about action bar.