Example – Options Menu

Primary menus of android (global impact). They can be used for settings, search, delete item etc. There are other 2 menus – Context and Pop-up menu

Options Menu

- 1. Create a new project Empty Activity
- 2. Create a menu resource directory Right click on res folder → new → Android Resource Directory. Change the resource type to menu in the dropdown list. Click on OK.
- 3. Create the menu resource file Right click on menu folder → new → Android Resource File. Give the name as menu_main. Click on OK.
- 4. Drag menu item from the palette. Set the attributes as follows:
 - android:id: attribute specifies the id of the menu item.
 - android:title: attribute value contains the title of the menu item
 - android:icon: attribute references an icon in the drawable directories
 - android:showAsAction: This attribute indicates how the given item should be portrayed in the menu bar.
 We can choose from any of the flags mentioned below:
 - always to keep it in the Menu Bar at all times
 - ifRoom to keep it only if space is available
 - never this means that the menu item will not be placed in the Menu Bar as an icon. It will only be visible when the menu button is clicked, in the overflow menu.
 - | withText : we can append this to either always or ifRoom, to indicate that the toolbar button to be both the icon and the title, not just the icon. (depends on space)

```
Id → message
  Icon → @drawable/ic menu call
  Showasaction \rightarrow always to display in the menu bar; if not set
  will be available through the overflow menu.
  Title → message
5. Similarly add the other items in the menu.
  <item
    android:id="@+id/picture"
    android:icon="@android:drawable/ic menu gallery"
    app:showAsAction="always|withText"
    android:title="picture"/>
  <item
    android:id="@+id/mode"
    android:icon="@android:drawable/ic menu call"
    app:showAsAction="always"
    android:title="mode"/>
  <item
    android:id="@+id/about"
    android:icon="@android:drawable/ic dialog info"
    app:showAsAction="never|withText"
    android:title="calculator"/>
  <item
    android:id="@+id/exit"
    app:showAsAction="never"
    android:title="exit"/>
6. menu main.xml
  <?xml version="1.0" encoding="utf-8"?>
  <menu xmlns:app="http://schemas.android.com/apk/res-
  auto"
```

```
xmlns:android="http://schemas.android.com/apk/res/androi
d">
```

```
<item
    android:id="@+id/message"
    android:icon="@android:drawable/ic menu send"
   app:showAsAction="always"
    android:title="message"/>
  <item
    android:id="@+id/picture"
    android:icon="@android:drawable/ic menu gallery"
    app:showAsAction="always|withText"
   android:title="picture"/>
  <item
    android:id="@+id/mode"
    android:icon="@android:drawable/ic menu call"
    app:showAsAction="always"
    android:title="mode"/>
  <item
    android:id="@+id/about"
    android:icon="@android:drawable/ic dialog info"
   app:showAsAction="never"
   android:title="calculator"/>
 <item
    android:id="@+id/exit"
   app:showAsAction="never"
    android:title="exit"/>
</menu>
```

7. mainActivity.java (*/This class displays the content of menu.xml file and performs event handling on clicking the menu items.*/)

```
package com.example.examplemenuoptions;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.widget.Toast;
import static android.widget.Toast.LENGTH LONG;
public class MainActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState)
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
  }
(/* Inflate the menu; this adds items to the menu if it is
present. */)
  public boolean onCreateOptionsMenu(Menu menu)
    getMenuInflater().inflate(R.menu.menu main, menu);
(/*MenuInflater class is used to instantiate menu XML files
into Menu objects. Here, we are inflating the menu by calling
the inflate() method of MenuInflater class */)
return true;
  }
  public boolean onOptionsItemSelected(MenuItem item)
(/*To perform event handling on menu items, you need to
```

```
override onOptionsItemSelected() method of Activity class. */)
    switch (item.getItemId()) {
      case R.id.message:
        Toast
             .makeText(
                 getApplicationContext(),
                 "Shows share icon",
                 Toast. LENGTH SHORT)
             .show();
        return true;
      case R.id.picture:
        Toast
             .makeText(
                 getApplicationContext(),
                 "Shows image icon",
                 Toast. LENGTH_SHORT)
             .show();
        return (true);
      case R.id.mode:
        Toast
             .makeText(
                 getApplicationContext(),
                 "Shows call icon",
                 Toast. LENGTH_SHORT)
             .show();
        return (true);
      case R.id.about:
        Toast
             .makeText(
                 getApplicationContext(),
                 "calculator menu",
```

```
Toast.LENGTH_SHORT)
.show();
return (true);

case R.id.exit:
finish();
return (true);
}
return (super.onOptionsItemSelected(item));
}
```