Program 11. Demonstration of options menu

MainActivity.java

```java
package com.example.optionmenu;
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);
    }

    public boolean onCreateOptionsMenu(Menu menu)
    {
        getMenuInflater().inflate(R.menu.options_menu, menu);
        return true;
    }

    public boolean onOptionsItemSelected(MenuItem item)
    {
        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();
                //startActivity(i2);
                return (true);

            case R.id.mode:
                Toast
                        .makeText(
                                getApplicationContext(),
                                "Shows call icon",
```

```java
                            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));
    }
}
```

activity_main.xml

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

options_menu.xml

```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/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"/>
```

```xml
<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"/>

</menu>
```