Mobile Programming
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<u>Assignment 2</u>

Create an app of your choice as a topic that uses the following:
1
- A menu that can switch several actions [At least 2 options].
2
- A Fragment that can be either a Fragment or DialogFragment [at least one of them].
3
- A couple of controls/views such as Buttons, TextViews, EditText, Spinner, Radio.

MainActivity.kt

```kotlin
package com.example.menufragmentapp

import android.os.Bundle
import android.view.Menu
import android.view.MenuItem
import androidx.appcompat.app.AppCompatActivity
import androidx.fragment.app.FragmentTransaction

class MainActivity : AppCompatActivity() {

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
    }

    override fun onCreateOptionsMenu(menu: Menu?): Boolean {
        menuInflater.inflate(R.menu.menu_main, menu)
        return true
    }

    override fun onOptionsItemSelected(item: MenuItem): Boolean {
        return when (item.itemId) {
            R.id.action_show_fragment -> {
                showFragment()
                true
            }
            R.id.action_show_dialog -> {
                showDialogFragment()
                true
            }
```

```kotlin
            else -> super.onOptionsItemSelected(item)
        }
    }

    private fun showFragment() {
        val fragment = SimpleFragment()
        val transaction: FragmentTransaction =
supportFragmentManager.beginTransaction()
        transaction.replace(R.id.fragment_container, fragment)
        transaction.addToBackStack(null)
        transaction.commit()
    }

    private fun showDialogFragment() {
        val dialogFragment = SimpleDialogFragment()
        dialogFragment.show(supportFragmentManager, "Pet corner")
    }
}
```

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"
    android:id="@+id/fragment_container"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#A387D3">

    <TextView
        android:id="@+id/textView2"
        android:layout_width="match_parent"
        android:layout_height="60dp"
        android:gravity="center"
        android:text="Welcome to pet shelter :)"
        android:textAppearance="@style/TextAppearance.AppCompat.Display1"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

OUTPUTS: