**Practical 6**

Programming menus, dialog, dialog fragments

**activityMain.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.appcompat.widget.Toolbar  
 android:id="@+id/toolbar"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:background="@color/purple\_500"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:navigationIcon="@drawable/menu"  
 app:title="Menu"/>  
 <Button  
 android:layout\_width="wrap\_content"  
 android:id="@+id/btn1"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="50dp"  
 android:layout\_marginTop="20dp"  
 android:layout\_marginEnd="50dp"  
 android:layout\_marginBottom="50dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/toolbar"  
 android:text="@string/click\_me"  
 android:textSize="30sp"/>  
</androidx.constraintlayout.widget.ConstraintLayout>

**mainActivity.kt**

package com.example.pract6  
import androidx.appcompat.app.AppCompatActivity  
import android.os.Bundle  
import android.os.PersistableBundle  
import android.view.Menu  
import android.view.MenuItem  
import android.widget.Button  
import android.widget.Toast  
import androidx.appcompat.app.AlertDialog  
  
class MainActivity : AppCompatActivity() {  
 override fun onCreate(savedInstanceState: Bundle?) { super.onCreate(savedInstanceState)  
 setContentView(R.layout.*activity\_main*)  
 setSupportActionBar(findViewById(R.id.*toolbar*)) }  
 override fun onCreateOptionsMenu(menu: Menu?): Boolean { *menuInflater*.inflate(R.menu.*mainmenu*,menu)  
 return super.onCreateOptionsMenu(menu) }  
  
 override fun onPrepareOptionsMenu(menu: Menu?): Boolean {  
 menu?.getItem(2)?.*isEnabled* = false  
 menu?.getItem(4)?.*isVisible*=false  
 return super.onPrepareOptionsMenu(menu)  
 }  
 override fun onOptionsItemSelected(item: MenuItem): Boolean { return when(item.*itemId*){  
 R.id.*notificationmenu*->{  
 Toast.makeText(this@MainActivity,"Notification",Toast.*LENGTH\_SHORT*).show()  
 return true }  
 R.id.*adding*->{ Toast.makeText(this@MainActivity,"Add",Toast.*LENGTH\_SHORT*).show()  
 return true }  
 R.id.*like*->{ Toast.makeText(this@MainActivity,"Like",Toast.*LENGTH\_SHORT*).show()  
 return true }  
 R.id.*share*->{ Toast.makeText(this@MainActivity,"Subscribe",Toast.*LENGTH\_SHORT*).show()  
 return true }  
 R.id.*about*->{ Toast.makeText(this@MainActivity,"Made With Love",Toast.*LENGTH\_SHORT*).show()  
 return true }  
 else->super.onOptionsItemSelected(item) }  
 }  
 override fun onBackPressed() {  
 val builder=AlertDialog.Builder(this)  
 builder.setTitle("Are you sure")  
 builder.setMessage("Are you sure you want to exit the app ?")  
 builder.setPositiveButton("Yes",**{**dialogInterface,i**->**finish()**}**)  
 builder.setNegativeButton("No",**{**dialogInterface,i**->}**)  
 builder.show()  
 }  
}

**mainmenu.xml**

package com.example.pract6  
import androidx.appcompat.app.AppCompatActivity  
import android.os.Bundle  
import android.os.PersistableBundle  
import android.view.Menu  
import android.view.MenuItem  
import android.widget.Button  
import android.widget.Toast  
import androidx.appcompat.app.AlertDialog  
  
class MainActivity : AppCompatActivity() {  
 override fun onCreate(savedInstanceState: Bundle?) { super.onCreate(savedInstanceState)  
 setContentView(R.layout.*activity\_main*)  
 setSupportActionBar(findViewById(R.id.*toolbar*)) }  
 override fun onCreateOptionsMenu(menu: Menu?): Boolean { *menuInflater*.inflate(R.menu.*mainmenu*,menu)  
 return super.onCreateOptionsMenu(menu) }  
  
 override fun onPrepareOptionsMenu(menu: Menu?): Boolean {  
 menu?.getItem(2)?.*isEnabled* = false  
 menu?.getItem(4)?.*isVisible*=false  
 return super.onPrepareOptionsMenu(menu)  
 }  
 override fun onOptionsItemSelected(item: MenuItem): Boolean { return when(item.*itemId*){  
 R.id.*notificationmenu*->{  
 Toast.makeText(this@MainActivity,"Notification",Toast.*LENGTH\_SHORT*).show()  
 return true }  
 R.id.*adding*->{ Toast.makeText(this@MainActivity,"Add",Toast.*LENGTH\_SHORT*).show()  
 return true }  
 R.id.*like*->{ Toast.makeText(this@MainActivity,"Like",Toast.*LENGTH\_SHORT*).show()  
 return true }  
 R.id.*share*->{ Toast.makeText(this@MainActivity,"Subscribe",Toast.*LENGTH\_SHORT*).show()  
 return true }  
 R.id.*about*->{ Toast.makeText(this@MainActivity,"Made With Love",Toast.*LENGTH\_SHORT*).show()  
 return true }  
 else->super.onOptionsItemSelected(item) }  
 }  
 override fun onBackPressed() {  
 val builder=AlertDialog.Builder(this)  
 builder.setTitle("Are you sure")  
 builder.setMessage("Are you sure you want to exit the app ?")  
 builder.setPositiveButton("Yes",**{**dialogInterface,i**->**finish()**}**)  
 builder.setNegativeButton("No",**{**dialogInterface,i**->}**)  
 builder.show()  
 }  
}

**AndroidManifest.xml**

*<?*xml version="1.0" encoding="utf-8"*?>*<manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools">  
  
 <application  
 android:allowBackup="true"  
 android:dataExtractionRules="@xml/data\_extraction\_rules"  
 android:fullBackupContent="@xml/backup\_rules"  
 android:icon="@mipmap/ic\_launcher"  
 android:label="@string/app\_name"  
 android:roundIcon="@mipmap/ic\_launcher\_round"  
 android:supportsRtl="true"  
 android:theme="@style/Theme.AppCompat.DayNight.NoActionBar"  
 tools:targetApi="31">  
 <activity  
 android:name=".MainActivity2"  
 android:exported="false">  
 <meta-data  
 android:name="android.app.lib\_name"  
 android:value="" />  
 </activity>  
 <activity  
 android:name=".MainActivity"  
 android:exported="true">  
 <intent-filter>  
 <action android:name="android.intent.action.MAIN" />  
  
 <category android:name="android.intent.category.LAUNCHER" />  
 </intent-filter>  
  
 <meta-data  
 android:name="android.app.lib\_name"  
 android:value="" />  
 </activity>  
 </application>  
  
</manifest>