

- activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:padding="10dp"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Student List"
        android:textSize="30sp"
        android:textStyle="bold"
        android:textColor="#0E0E0E"
        />

    <androidx.appcompat.widget.AppCompatButton
        android:id="@+id/btnAddstudent"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Add Student"
        android:textSize="20sp"
        android:background="#1DE425"
        android:textColor="@color/white"
        android:textAllCaps="false"
        android:padding="10dp"
        android:layout_alignParentRight="true"/>

    <androidx.recyclerview.widget.RecyclerView
        android:id="@+id/recyclerView"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:scrollbars="vertical"
        android:layout_below="@+id/btnAddstudent"/>

</RelativeLayout>
```

- std_item_layout.xml

```

• <?xml version="1.0" encoding="utf-8"?>
  <LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical">
    <TextView
      android:id="@+id/txtId"
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:layout_alignParentTop="true"
      android:layout_marginTop="15dp"
      android:text="ID"
      android:textSize="25sp"/>
    <TextView
      android:id="@+id/txtName"
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:textSize="20sp"
      android:text="Name"
      android:layout_below="@+id/txtId"/>
    <TextView
      android:id="@+id/txtAge"
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:textSize="20sp"
      android:text="Age"
      android:layout_below="@+id/txtName"/>
  </LinearLayout>

```

- add_dialog_layout.xml

```

• <?xml version="1.0" encoding="utf-8"?>
  <LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:padding="20dp">
    <TextView
      android:layout_width="match_parent"
      android:layout_height="wrap_content"
      android:text="Add Student Dailog"
      android:textAlignment="center"
      android:textSize="25sp"
      android:textStyle="bold"/>
  </LinearLayout>

```

```

        <com.google.android.material.textfield.TextInputLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"

style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"
            android:hint="Student ID"
            android:layout_marginTop="12dp">
        <com.google.android.material.textfield.TextInputEditText
            android:id="@+id/edtId"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:inputType="text"
            android:textSize="20sp"/>
    </com.google.android.material.textfield.TextInputLayout>
    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"

style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"
            android:hint="Student Name"
            android:layout_marginTop="12dp">
        <com.google.android.material.textfield.TextInputEditText
            android:id="@+id/edtName"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:inputType="text"
            android:textSize="20sp"/>
    </com.google.android.material.textfield.TextInputLayout>

    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"

style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"
            android:hint="Age"
            android:layout_marginTop="12dp">
        <com.google.android.material.textfield.TextInputEditText
            android:id="@+id/edtAge"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:inputType="number"
            android:textSize="20sp"/>
    </com.google.android.material.textfield.TextInputLayout>

</LinearLayout>

```

- MainActivity.kt

```

        Toast.LENGTH_LONG
    ).show()
    }
    //Cancel Button
    myBuilder.setNegativeButton("Cancel",) {dialog, which ->
        dialog.dismiss()
    }
    myBuilder.show()
}

}

fun studentData() {
    studentList.add(Student("No1", "Aj.Monlica Wattana", 29))
    studentList.add(Student("623020380-0", "P.Qs", 20))
    studentList.add(Student("623020408-4", "P.Pleng", 20))
    studentList.add(Student("623020375-3", "P.Peachs", 20))
    studentList.add(Student("623020678-5", "P.Eester", 20))
    studentList.add(Student("623020373-7", "P.Tuiz", 20))
}
}

```

- Student.kt

```

• package com.example.lab7recyclerviewdialog2022

  data class Student (val id:String, val name:String, val age:Int)

```

- StudentsAdapter.kt

- ```
package com.example.lab7recyclerviewdialog2022
```

```
import android.content.Context
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import androidx.recyclerview.widget.RecyclerView
import com.example.lab7recyclerviewdialog2022.databinding.StdItemLayoutBinding

class StudentAdapter(val studentList: ArrayList<Student>?, val
context: Context):
 RecyclerView.Adapter<StudentAdapter.ViewHolder>() {
 class ViewHolder (view: View, val binding: StdItemLayoutBinding):
 RecyclerView.ViewHolder(view) {

 }

 override fun onCreateViewHolder(parent: ViewGroup, viewType: Int):
ViewHolder {
 val binding =
StdItemLayoutBinding.inflate(LayoutInflater.from(parent.context), parent
, false)
 return ViewHolder(binding.root, binding)
 }

 override fun onBindViewHolder(holder: ViewHolder, position: Int) {
 val binding = holder.binding
 binding.txtId.text = "ID: ${studentList!![position].id}"
 binding.txtName.text = "Name: ${studentList!![position].name}"
 binding.txtAge.text = "Age: ${studentList!![position].age}"
 }

 override fun getItemCount(): Int {
 return studentList!!.size
 }
}
```