|  |  |  |
| --- | --- | --- |
| **Experiment No. : 3** | **TODO LIST APP** | **Date: 7/4/22** |

**AIM:** To develop a ToDo List App in Android Studio.

**Layout Code:**

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout 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:orientation="vertical"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:id="@+id/editText"

android:hint="@string/addItemHint"

android:contentDescription="@string/addItemDescription"

/>

<ListView

android:layout\_width="match\_parent"

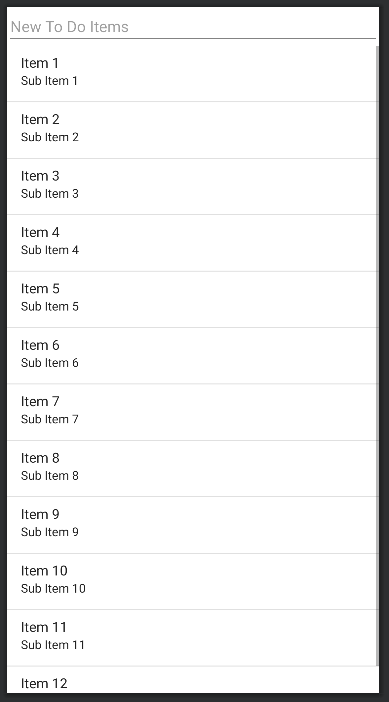
android:layout\_height="wrap\_content"

android:id="@+id/listView"

/>

</LinearLayout>

**Layout Design:**



**Strings.xml Code:**

<?xml version="1.0" encoding="utf-8"?>

<resources>

<string name="app\_name">ToDo List</string>

<string name="addItemHint">New To Do Items</string>

<string name="addItemDescription">Add New To Do List</string>

</resources>

**Main Java Code:**

package com.ramanand.todolist;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.KeyEvent;

import android.view.View;

import android.widget.ArrayAdapter;

import android.widget.EditText;

import android.widget.ListView;

import java.util.ArrayList;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

ListView listView = (ListView) findViewById(R.id.listView);

final EditText editText = (EditText) findViewById(R.id.editText);

final ArrayList<String> todoItems = new ArrayList<String>();

final ArrayAdapter<String> s;

s = new ArrayAdapter<String>(this, android.R.layout.simple\_list\_item\_1, todoItems);

listView.setAdapter(s);

editText.setOnKeyListener(new View.OnKeyListener(){

public boolean onKey(View v, int keyCode, KeyEvent event){

if(event.getAction() == KeyEvent.ACTION\_DOWN)

if ((keyCode == KeyEvent.KEYCODE\_DPAD\_CENTER) ||

(keyCode == KeyEvent.KEYCODE\_ENTER)){

todoItems.add(0, editText.getText().toString());

s.notifyDataSetChanged();

editText.setText("");

return true;

}

return false;

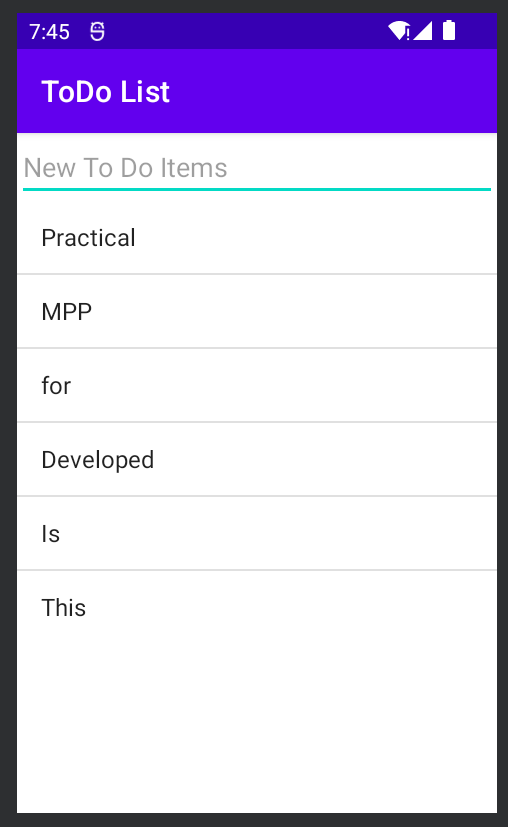
}

});

}

}

**Output:**

****

**Conclusion:** The ToDo list App in Android studio was successfully implemented and tested.