Activity\_main.xml:

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:gravity="center"

android:orientation="vertical"

android:padding="20dp">

<EditText

android:id="@+id/etNumber"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Enter a number"

android:inputType="number" />

<Button

android:id="@+id/btnGenerate"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Generate List" />

</LinearLayout>

Activity\_second.xml:

<ScrollView xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<LinearLayout

android:id="@+id/container"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="vertical"

android:padding="16dp" />

</ScrollView>

Main Java Code:

package com.example.practical10;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

EditText etNumber;

Button btnGenerate;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

etNumber = findViewById(R.id.etNumber);

btnGenerate = findViewById(R.id.btnGenerate);

btnGenerate.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String numStr = etNumber.getText().toString().trim();

if (!numStr.isEmpty()) {

int num = Integer.parseInt(numStr);

Intent intent = new Intent(MainActivity.this, SecondActivity.class);

intent.putExtra("count", num);

startActivity(intent);

}

}

});

}

}

SecondActivity.java:

package com.example.practical10;

import static com.example.practical10.R.layout.activity\_second;

import android.os.Bundle;

import android.widget.LinearLayout;

import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

public class SecondActivity extends AppCompatActivity {

LinearLayout container;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(activity\_second);

container = findViewById(R.id.container);

// Get number from intent

int count = getIntent().getIntExtra("count", 0);

// Dynamically generate TextViews

for (int i = 1; i <= count; i++) {

TextView tv = new TextView(this);

tv.setText("Item " + i);

tv.setTextSize(18f);

tv.setPadding(10, 10, 10, 10);

container.addView(tv);

}

}

}

Menifest file:

<?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.Practical10"

tools:targetApi="31">

<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>

</activity>

<activity android:name=".SecondActivity"></activity>

</application>

</manifest>