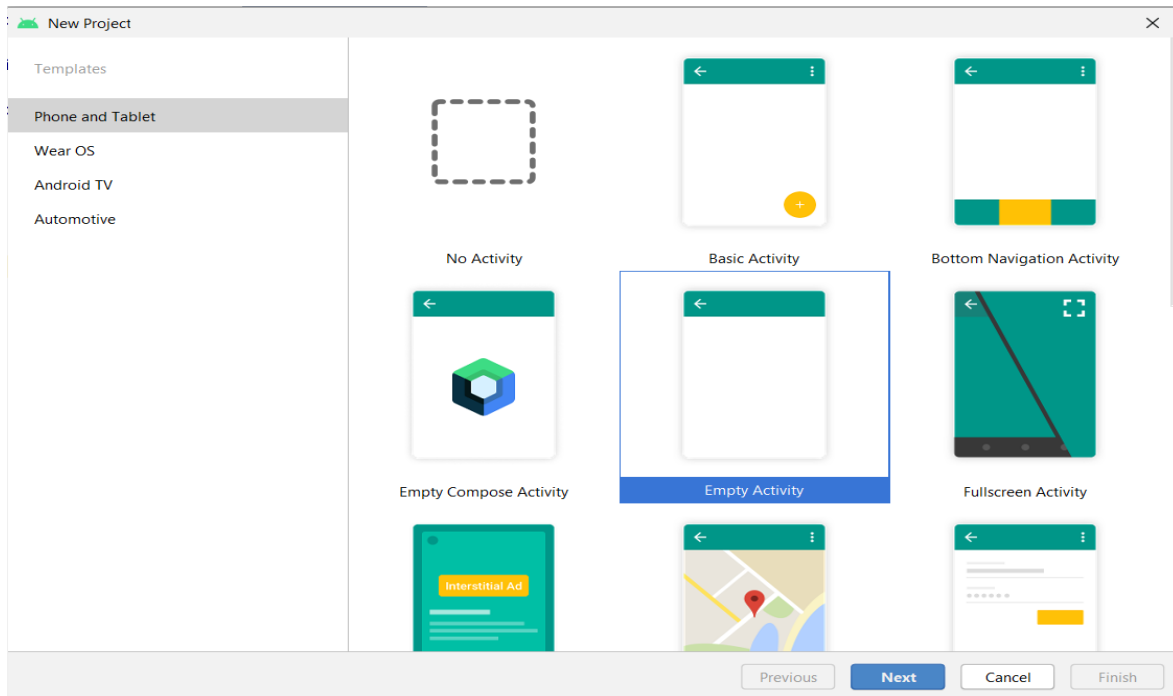
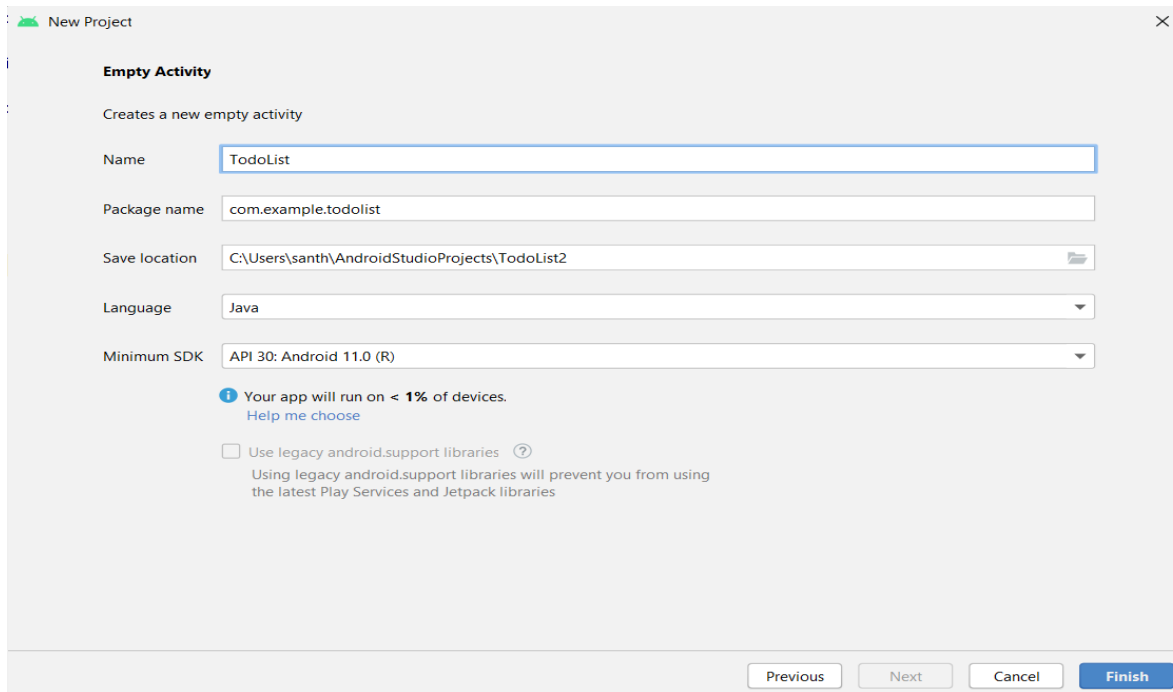


# "To-DO List" App

## 1.Create New Project with “Empty Activity”.

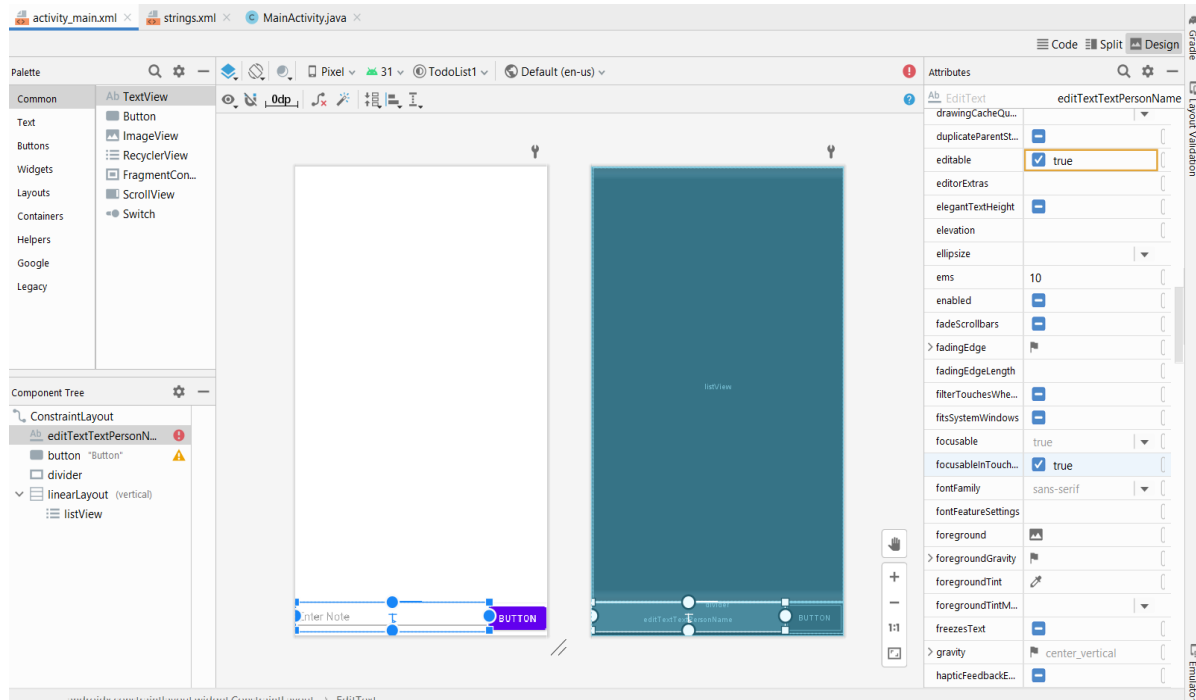


## 2.Enter Activity name and Click on Finish.



3.To design the attributes like Textbox's & button's etc- under "activity\_main.xml" follow the steps given in the link in **Design Tab**

### [Build A To-Do List App in Android Studio | Beginner's Guide](#)



Or copy the code under **activity\_main.xml** page in **Code Tab**.

**activity\_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">

    <EditText
        android:id="@+id/editTextTextPersonName"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
```

```
android:layout_marginBottom="7dp"
android:editable="true"
android:ems="10"
android:focusableInTouchMode="true"
android:hint="Enter Note"
android:inputType="textPersonName"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toStartOf="@+id/button"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/linearLayout" />
```

#### <Button

```
android:id="@+id/button"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginEnd="1dp"
android:layout_marginBottom="3dp"
android:text="Button"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toEndOf="@+id/editTextTextPersonName"
app:layout_constraintTop_toBottomOf="@+id/linearLayout" />
```

#### <View

```
android:id="@+id/divider"
android:layout_width="409dp"
android:layout_height="1dp"
android:layout_marginStart="1dp"
android:layout_marginEnd="1dp"
android:background="?android:attr/listDivider"
app:layout_constraintBottom_toTopOf="@+id/button"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent" />
```

#### <LinearLayout

```
android:id="@+id/linearLayout"
android:layout_width="0dp"
```

```

    android:layout_height="0dp"
    android:layout_marginStart="1dp"
    android:layout_marginTop="1dp"
    android:layout_marginEnd="1dp"
    android:layout_marginBottom="2dp"
    android:orientation="vertical"
    app:layout_constraintBottom_toTopOf="@+id/button"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent">

```

```

<ListView
    android:id="@+id/listView"
    android:layout_width="match_parent"
    android:layout_height="match_parent" />
</LinearLayout>

```

```

</androidx.constraintlayout.widget.ConstraintLayout>

```

4. Write the below code under “MainActivity.java”.

```

import androidx.appcompat.app.AppCompatActivity;

```

```

import android.content.Context;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ListView;
import android.widget.Toast;

```

```

import java.util.ArrayList;

```

```

public class MainActivity extends AppCompatActivity {

```

```

    private ArrayList<String> items;
    private ArrayAdapter<String> itemsAdapter;

```

```
private ListView listView;  
private Button button2;
```

```
@Override
```

```
protected void onCreate(Bundle savedInstanceState) {  
    super.onCreate(savedInstanceState);  
    setContentView(R.layout.activity_main);
```

```
    listView = findViewById(R.id.listView);  
    button2 = findViewById(R.id.button);
```

```
    button2.setOnClickListener(new View.OnClickListener() {
```

```
        @Override
```

```
        public void onClick(View view) {  
            addItem(view);  
        }
```

```
    });
```

```
    items = new ArrayList<>();
```

```
    itemsAdapter = new ArrayAdapter<>(this,  
    android.R.layout.simple_list_item_1,items);
```

```
    listView.setAdapter(itemsAdapter);  
    setUpListViewListener();  
}
```

```
private void setUpListViewListener(){
```

```
    listView.setOnItemLongClickListener(new  
    AdapterView.OnItemLongClickListener() {
```

```
        @Override
```

```
        public boolean onItemLongClick(AdapterView<?> adapterView, View  
        view, int i, long l) {
```

```
            Context context = getApplicationContext();
```

```
            Toast.makeText(context, "Item  
removed", Toast.LENGTH_LONG).show();
```

```
            items.remove(i);
```

```
            itemsAdapter.notifyDataSetChanged();
```

```
            return true;
```

```
        }
```

```
    });
```

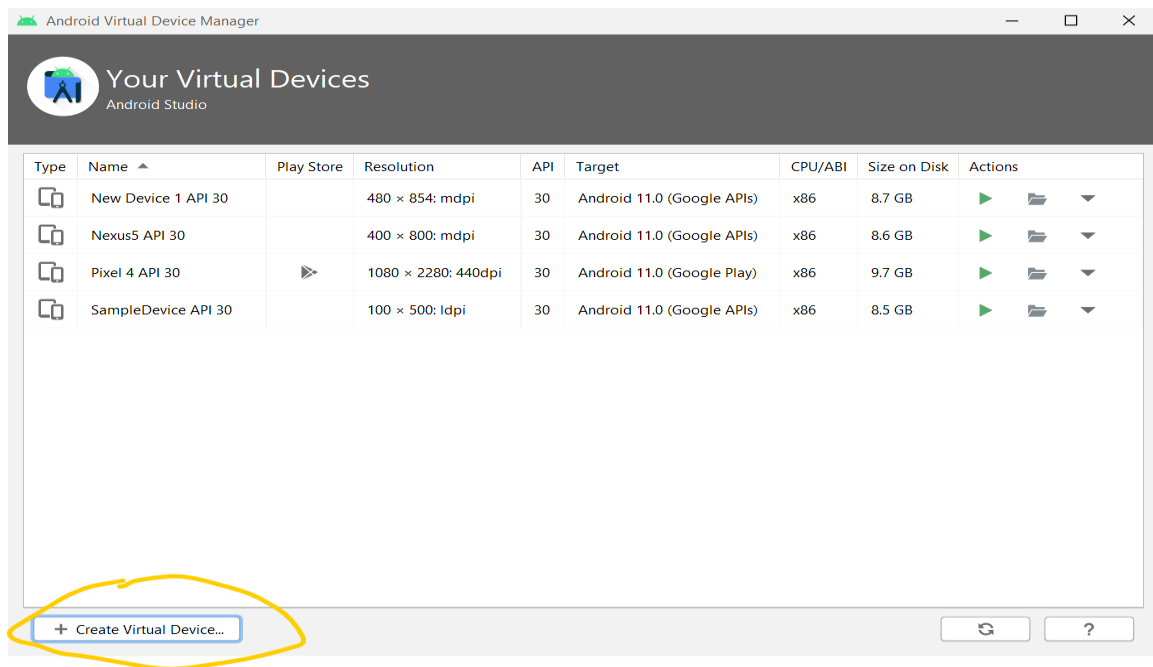
```

}
private void addItem(View view){
    EditText input = findViewById(R.id.editTextTextPersonName);
    String itemText = input.getText().toString();
    if(!itemText.equals("")){
        itemsAdapter.add(itemText);
        input.setText("");
    }
    else {
        Toast.makeText(getApplicationContext(),"Please enter
text",Toast.LENGTH_LONG).show();
    }
}
}
}

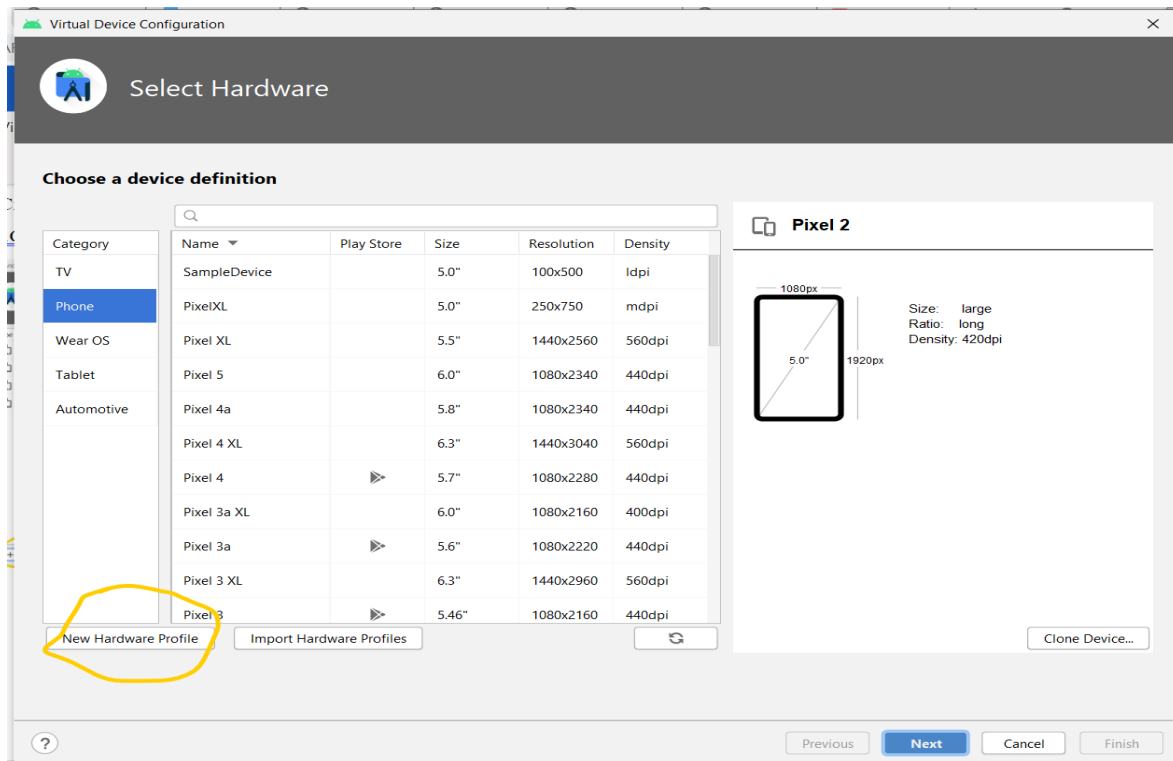
```

5. Create the Virtual Device with D-pad option follow below steps.

A. Click on **Create Virtual Device**.



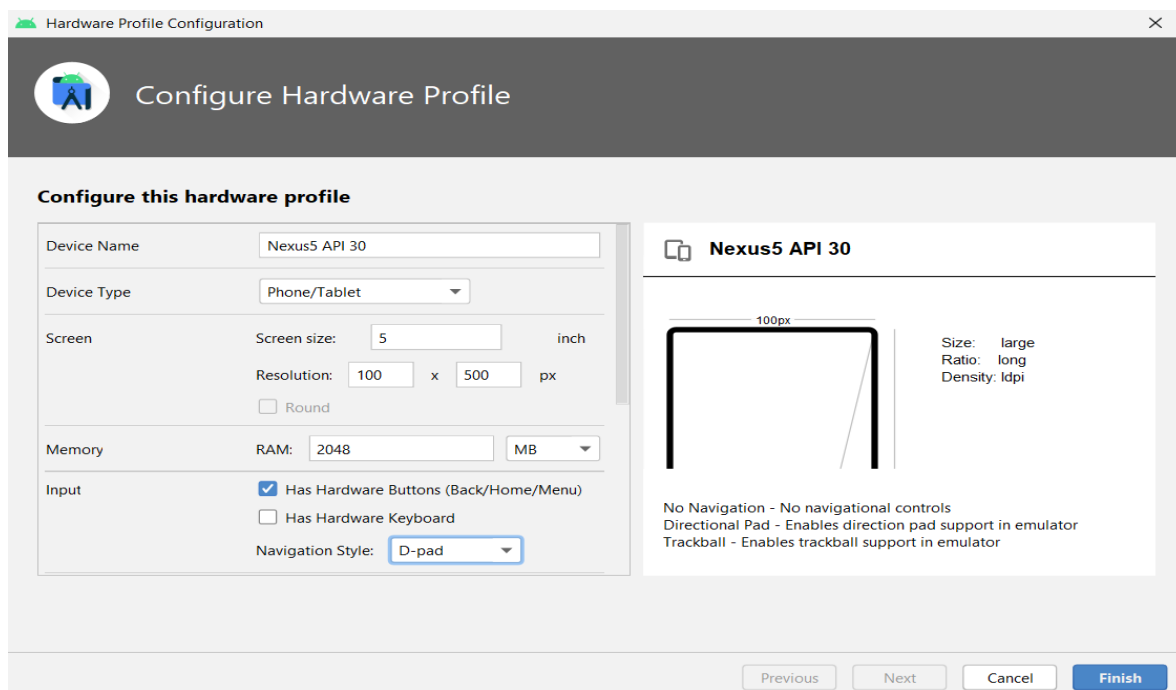
B. Click on **New Hardware Profile**.



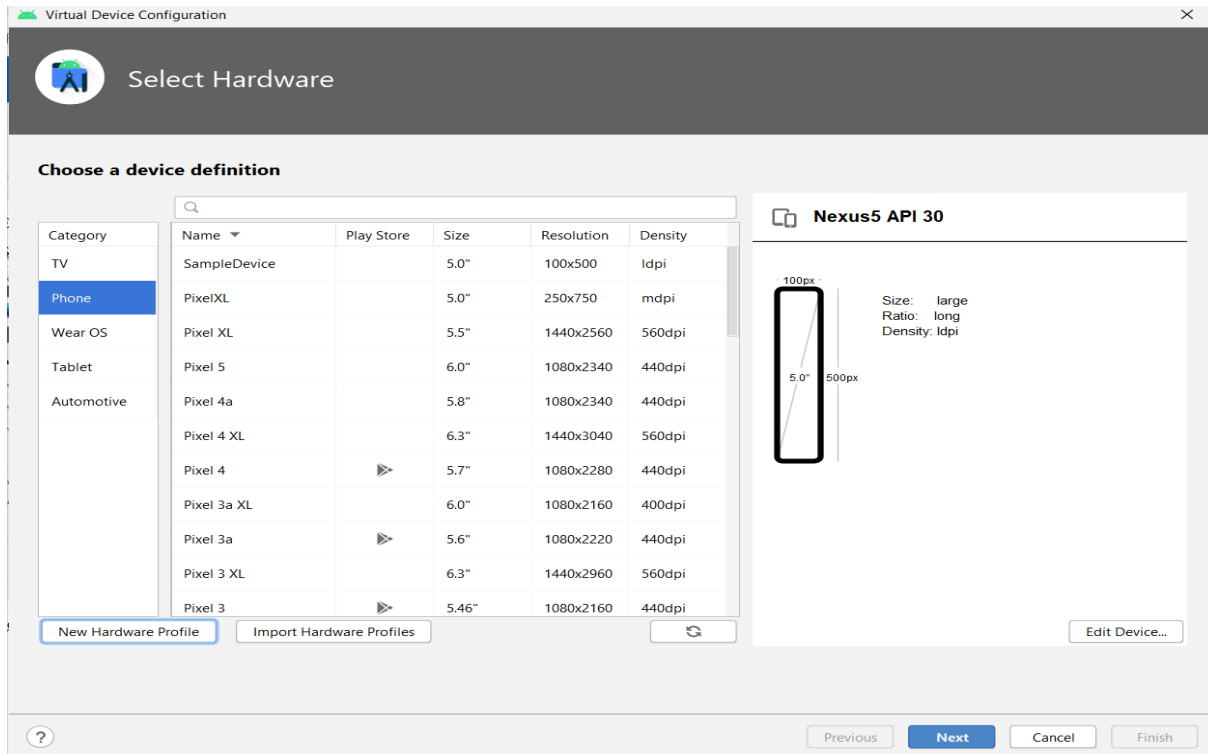
C. Enter **Device Name** and select **Resolution** as “100 X 500”.

D. Select “**Has Hardware Buttons**” checkbox and Select **D-pad** in **Navigation Style** **Dropbox** and

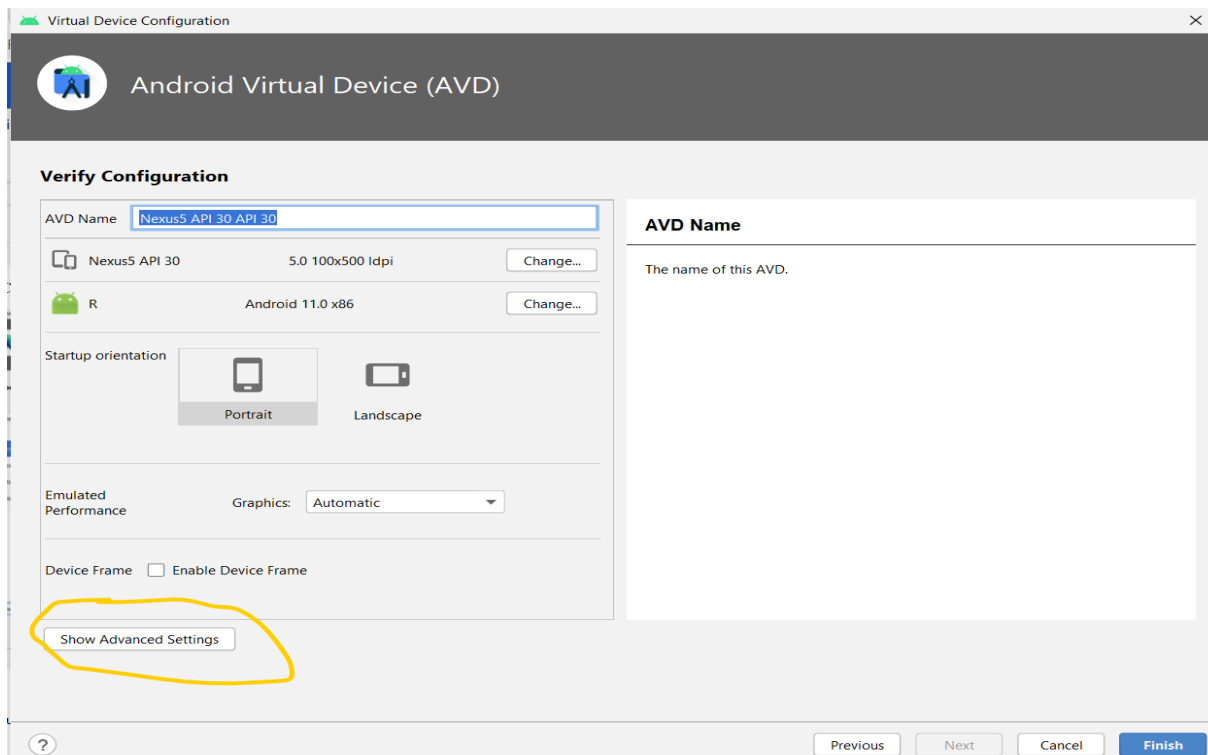
Click on **Finish** button.



E. Click On Next button.

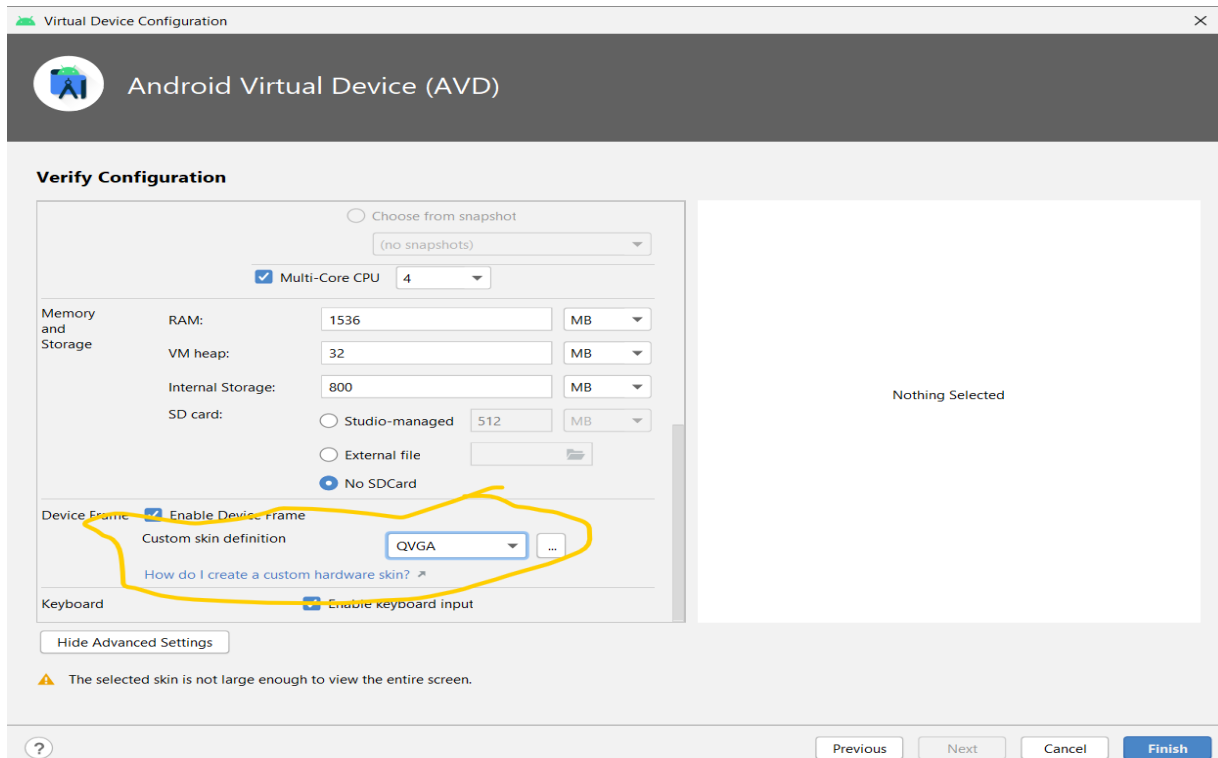


F. Click On **Show Advanced Settings** in Virtual Configuration page.

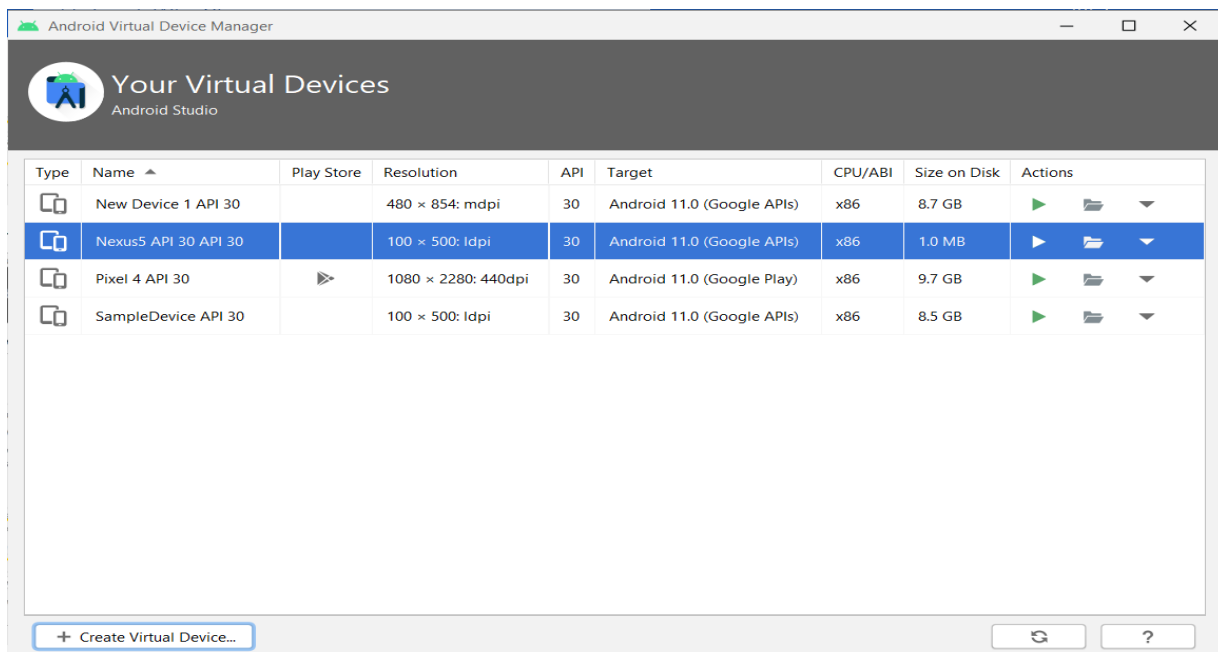




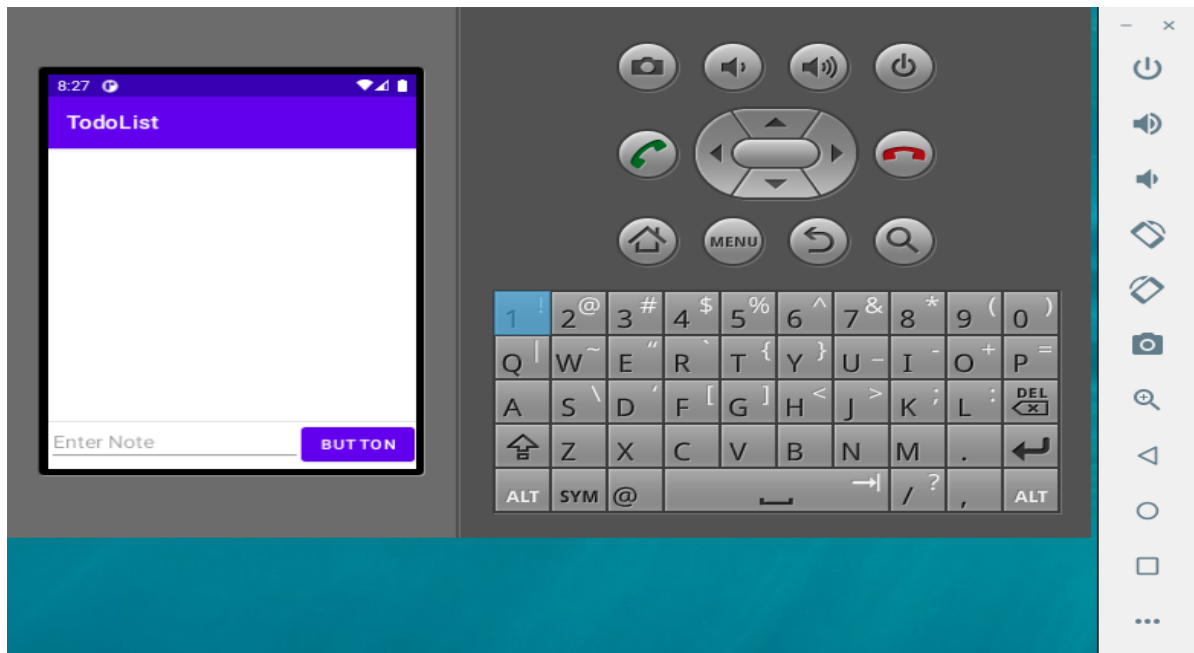
G. Select **Custom skin definition** as “QVGA” and Click on Finish.



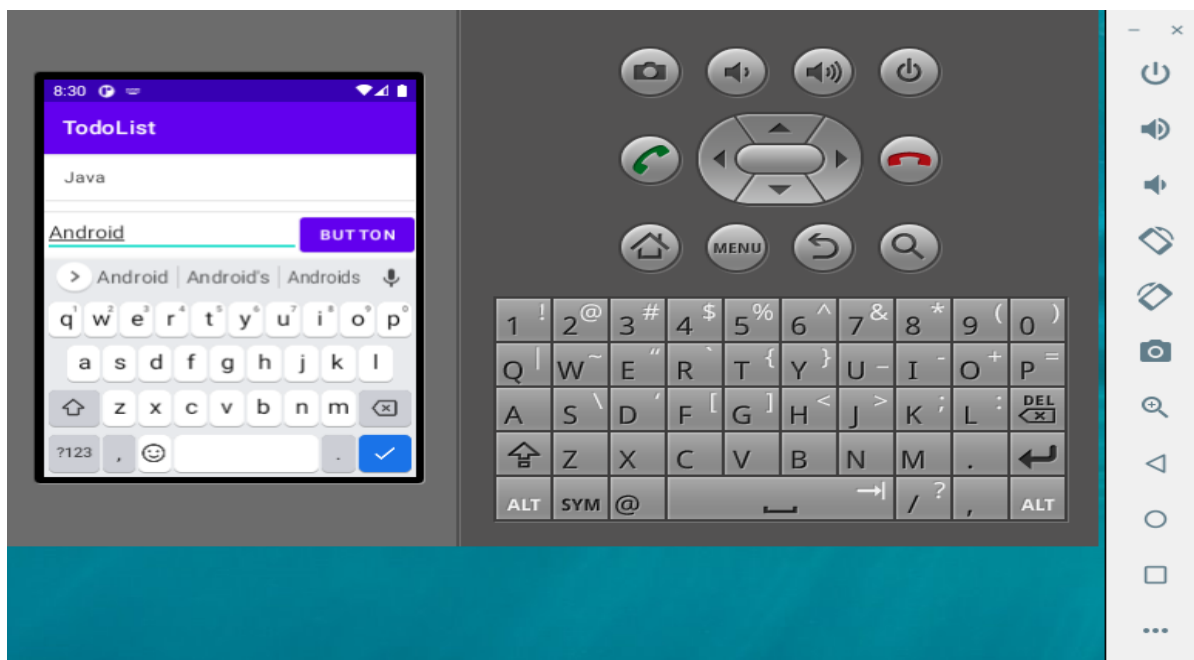
H. New Virtual Device created.



I. Select the New Virtual Device and run the application.



J. Enter the list in the textbox and click on Button.



K. Finally ToDoList is created.

