4. Create spinner with strings taken from resource folder (res >> value folder) and on changing the spinner value, Image will change.

```xml
<resources>
    <string name="app_name">Spinner_01</string>
    <string-array name="myarry">
        <item> <b> Doremon </b> </item>
        <item> <b> ShinChan </b> </item>
        <item> <b> Tom and Jerry </b> </item>
    </string-array>
</resources>
```

```java
package com.example.spinner_01;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.Button;
import android.widget.ImageView;
import android.widget.Spinner;

public class MainActivity extends AppCompatActivity {
    Spinner sp;
    ImageView img;
    View v;
    Button b1,b2;
    int c=0;
    int s=0;
    int []a = new int[5];
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        b1 = (Button) findViewById(R.id.button);
        b2 = (Button) findViewById(R.id.button2);

        sp = (Spinner) findViewById(R.id.spinner);
        img = (ImageView) findViewById(R.id.imageView);
        v = this.getWindow().getDecorView();

        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                    int e = a[s--];
                    if (e == 1)
                        img.setImageResource(R.drawable.shinchan);
                    else if(e == 2)
                        img.setImageResource(R.drawable.tom_jerry);
                    else
                        img.setImageResource(R.drawable.doremon_1);
                    if(s<0)
                        s=0;
            }
        });

        b2.setOnClickListener(new View.OnClickListener() {
```

```java
                @Override
                public void onClick(View view) {
                    int e = a[s++];
                    if (e == 1)
                        img.setImageResource(R.drawable.shinchan);
                    else if (e == 2)
                        img.setImageResource(R.drawable.tom_jerry);
                    else
                        img.setImageResource(R.drawable.doremon_1);
                    if (s==5)
                        s=0;
                }
            });
            sp.setOnItemSelectedListener(new
AdapterView.OnItemSelectedListener() {
                @Override
                public void onItemSelected(AdapterView<?> adapterView, View
view, int i, long l) {
                    if (sp.getSelectedItemId() == 0) {
                        img.setImageResource(R.drawable.doremon_1);
                        c = 0;
                        a[s++] = c;
                        //v.setBackgroundResource(R.drawable.agam_gupta_01);
                    } else if (sp.getSelectedItemId() == 1) {
                        img.setImageResource(R.drawable.shinchan);
                        c = 1;
                        a[s++] = c;
                        //v.setBackgroundResource(R.drawable.y20);
                    } else {
                        img.setImageResource(R.drawable.tom_jerry);
                        c = 2;
                        a[s++] = c;
                        //v.setBackgroundResource(R.drawable.y19);
                    }
                    if(s==5)
                        s=0;
                }

                @Override
                public void onNothingSelected(AdapterView<?> adapterView) {

                }
            });
    }
}
```

```
// XML
```

```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"
    android:background="#FF9800"
    tools:context=".MainActivity">

    <TextView
```

```xml
        android:id="@+id/textView"
        android:layout_width="312dp"
        android:layout_height="46dp"
        android:background="#A9C34A"
        android:paddingLeft="100dp"
        android:paddingTop="4dp"
        android:text="Spinner"
        android:textSize="34sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.494"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.045" />

    <Spinner
        android:id="@+id/spinner"
        android:layout_width="324dp"
        android:layout_height="48dp"
        android:background="#FF5722"
        android:entries="@array/myarry"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.563"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView"
        app:layout_constraintVertical_bias="0.224" />

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Undo"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.211"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.183" />

    <Button
        android:id="@+id/button2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Redo"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.738"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.183" />

    <ImageView
        android:id="@+id/imageView"
        android:layout_width="216dp"
        android:layout_height="208dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
```

```
            app:layout_constraintTop_toTopOf="parent"
            app:layout_constraintVertical_bias="0.706"
            tools:srcCompat="@drawable/shinchan" />
</androidx.constraintlayout.widget.ConstraintLayout>
```