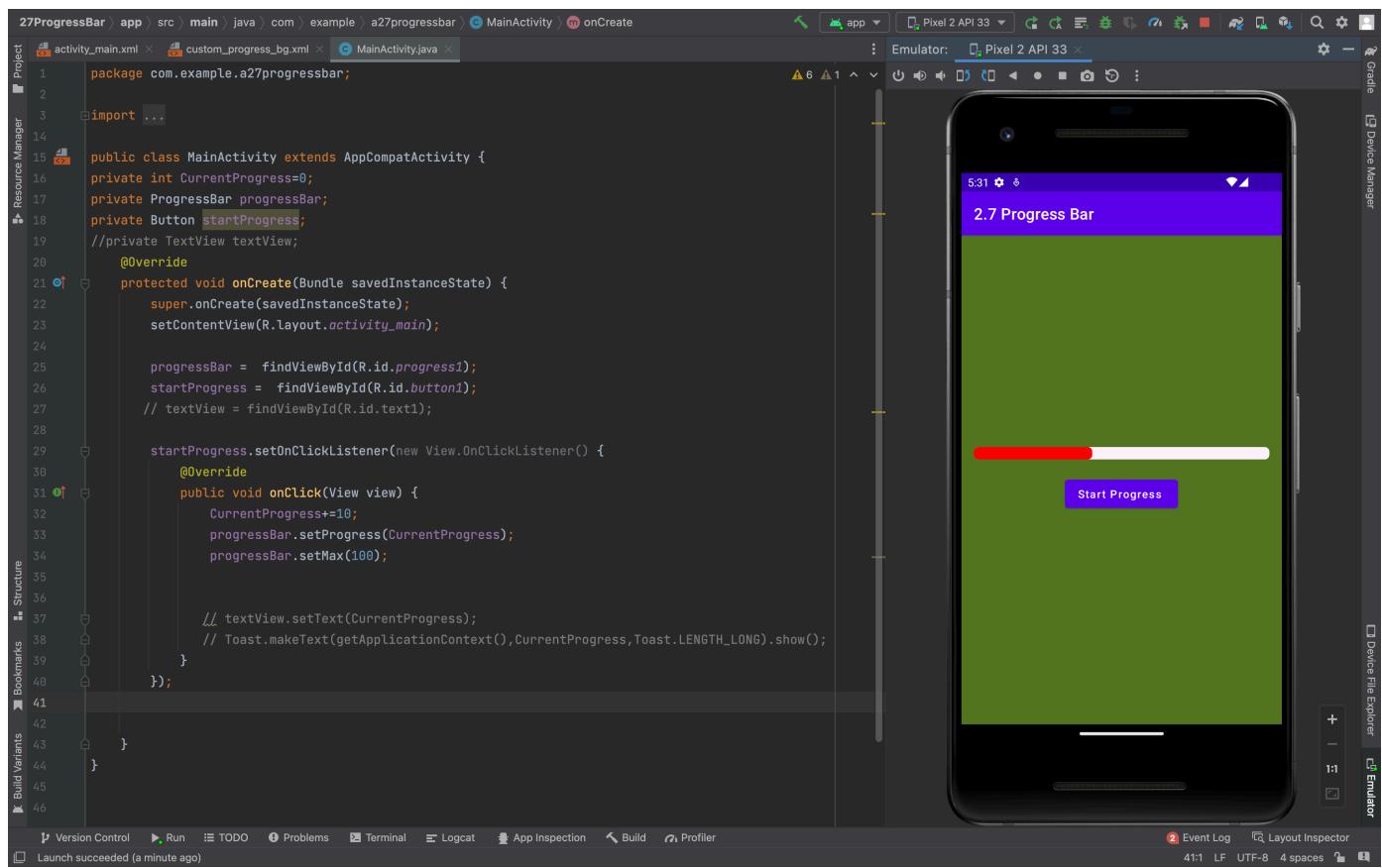
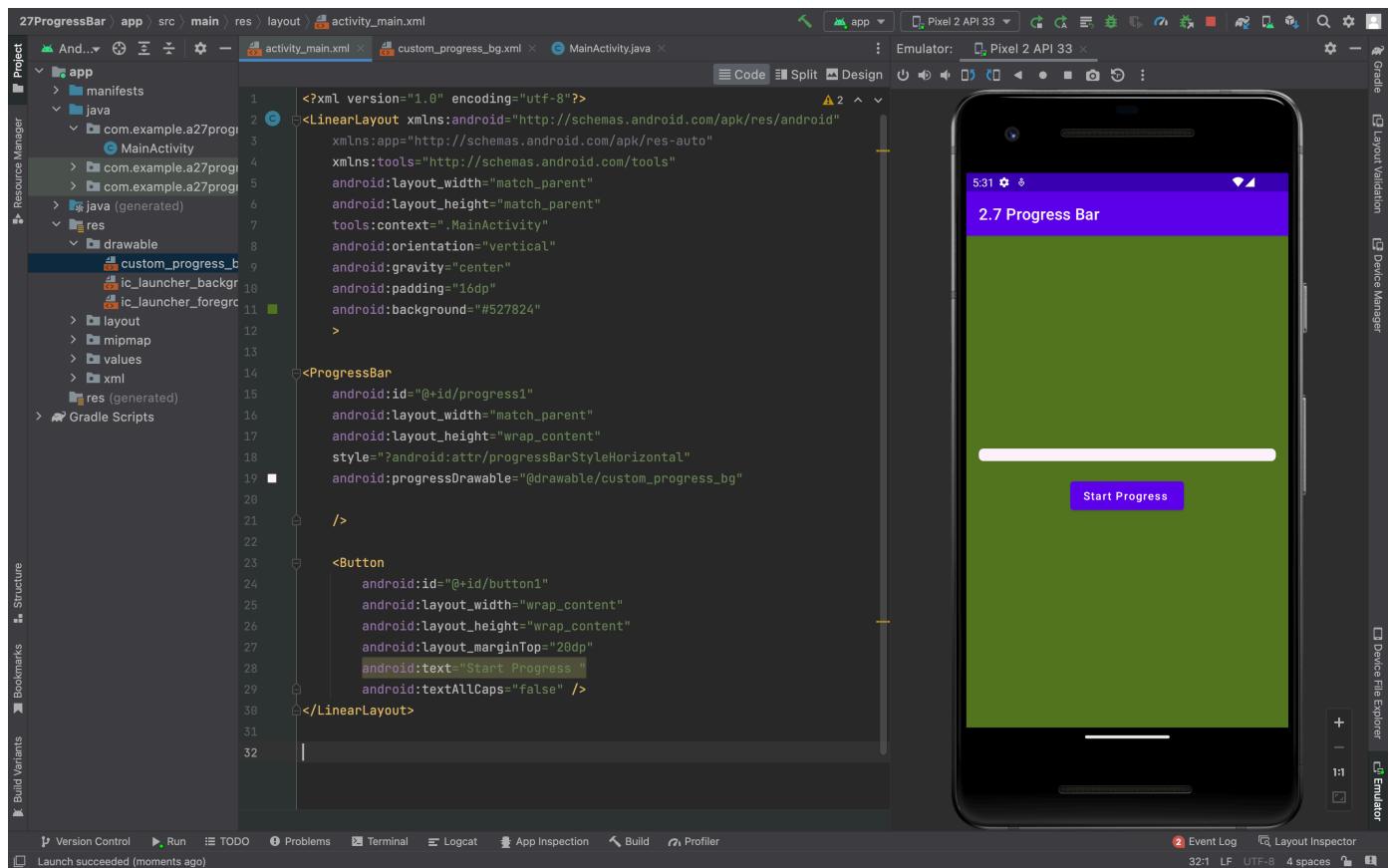
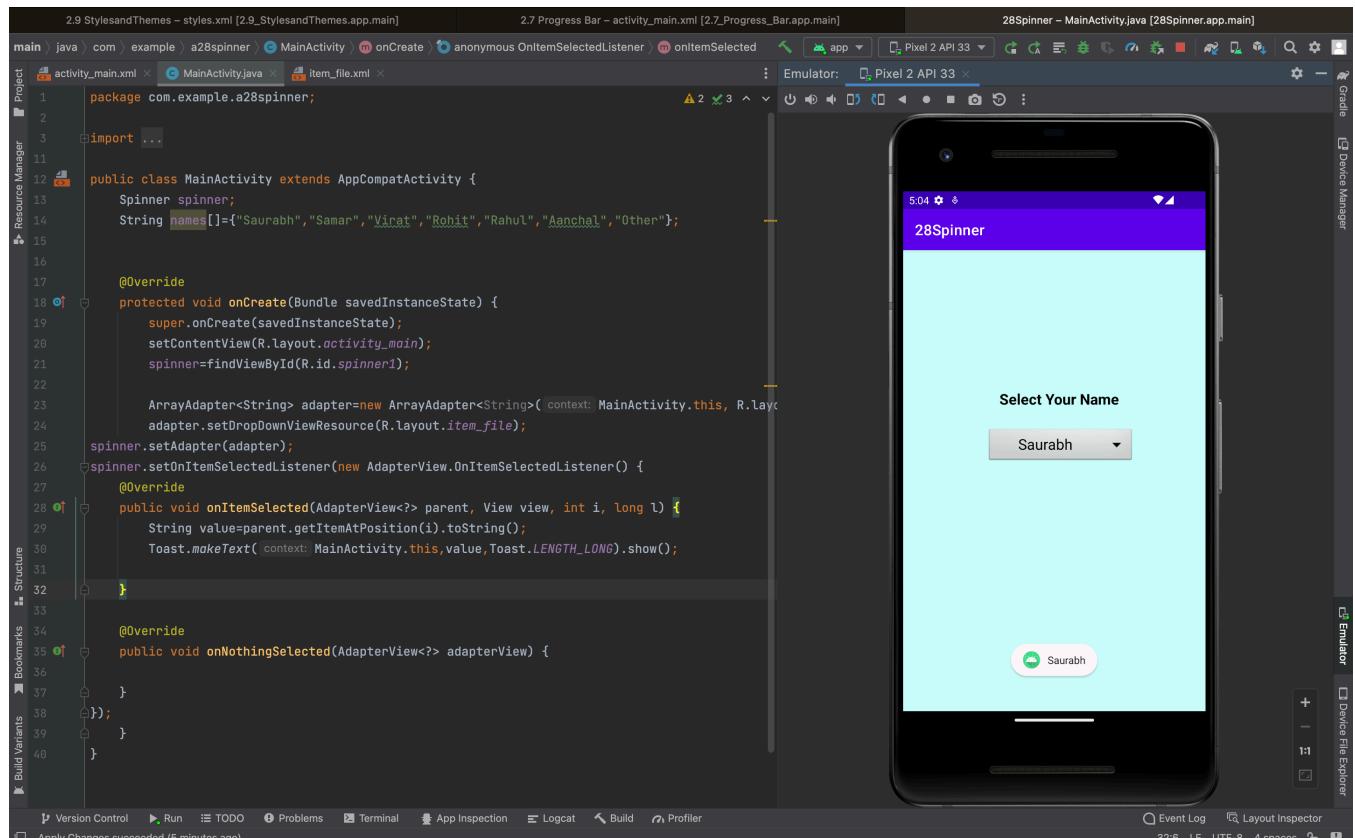


## 2.7 : Progress Bar



## 2.8 Spinner

### a. Spinner with Dialog



MainActivity.java code:

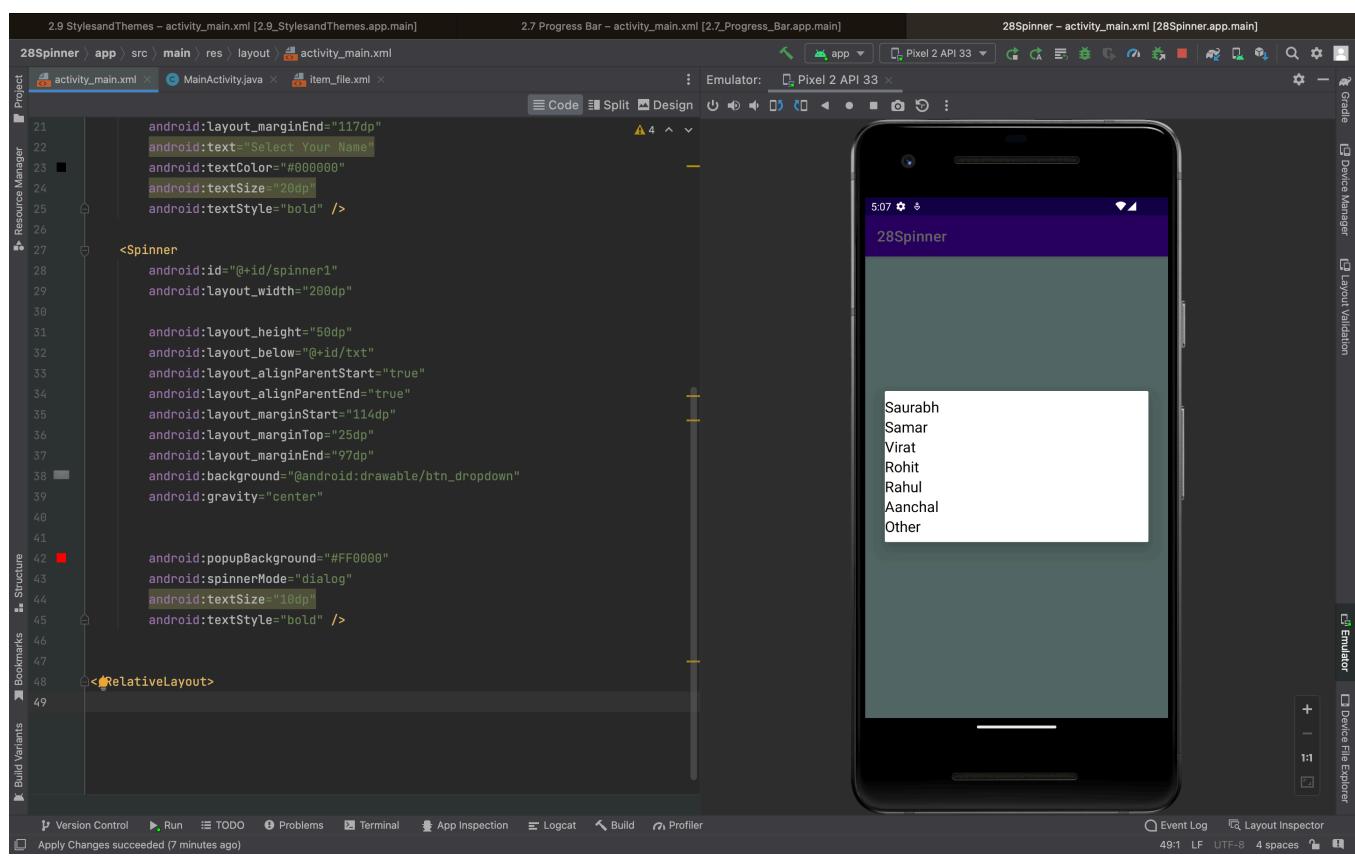
```

2.9 StylesandThemes – styles.xml [2.9_StylesandThemes.app.main]
2.7 Progress Bar – activity_main.xml [2.7_Progress_Bar.app.main]
28Spinner – MainActivity.java [28Spinner.app.main]

main > java > com > example > a28spinner > MainActivity > onCreate > anonymous OnItemSelectedListener > onItemSelected

1 package com.example.a28spinner;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6     Spinner spinner;
7     String names[]={"Saurabh", "Samar", "Virat", "Rohit", "Rahul", "Aanchal", "Other"};
8
9
10    @Override
11    protected void onCreate(Bundle savedInstanceState) {
12        super.onCreate(savedInstanceState);
13        setContentView(R.layout.activity_main);
14        spinner=findViewById(R.id.spinner1);
15
16        ArrayAdapter<String> adapter=new ArrayAdapter<String>( context: MainActivity.this, R.layout.item_file);
17        adapter.setDropDownViewResource(R.layout.item_file);
18        spinner.setAdapter(adapter);
19        spinner.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {
20            @Override
21            public void onItemSelected(AdapterView<?> parent, View view, int i, long l) {
22                String value=parent.getItemAtPosition(i).toString();
23                Toast.makeText( context: MainActivity.this,value,Toast.LENGTH_LONG).show();
24            }
25
26            @Override
27            public void onNothingSelected(AdapterView<?> adapterView) {
28            }
29        });
30    }
31
32
33
34
35
36
37
38
39
40

```



activity\_main.xml code:

```

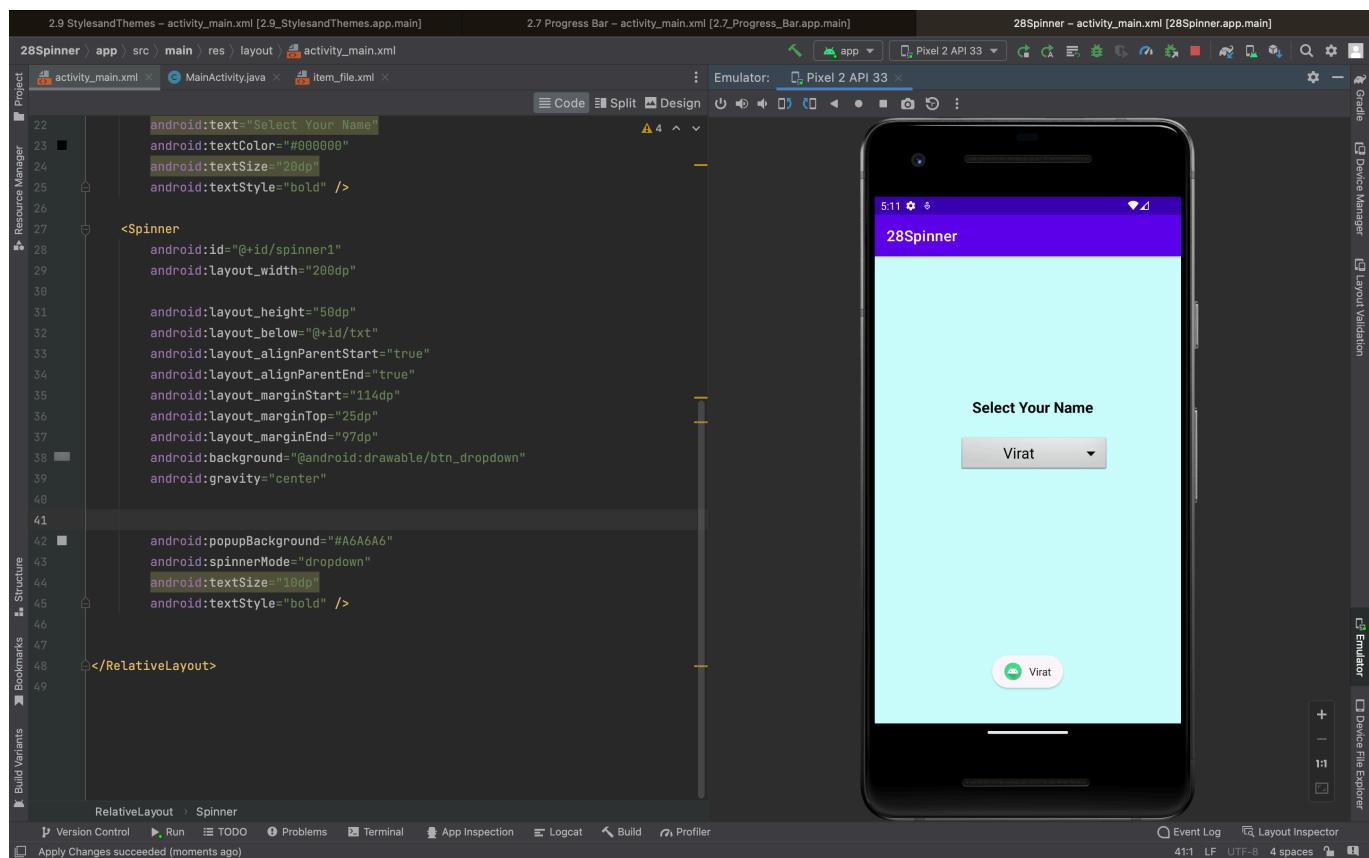
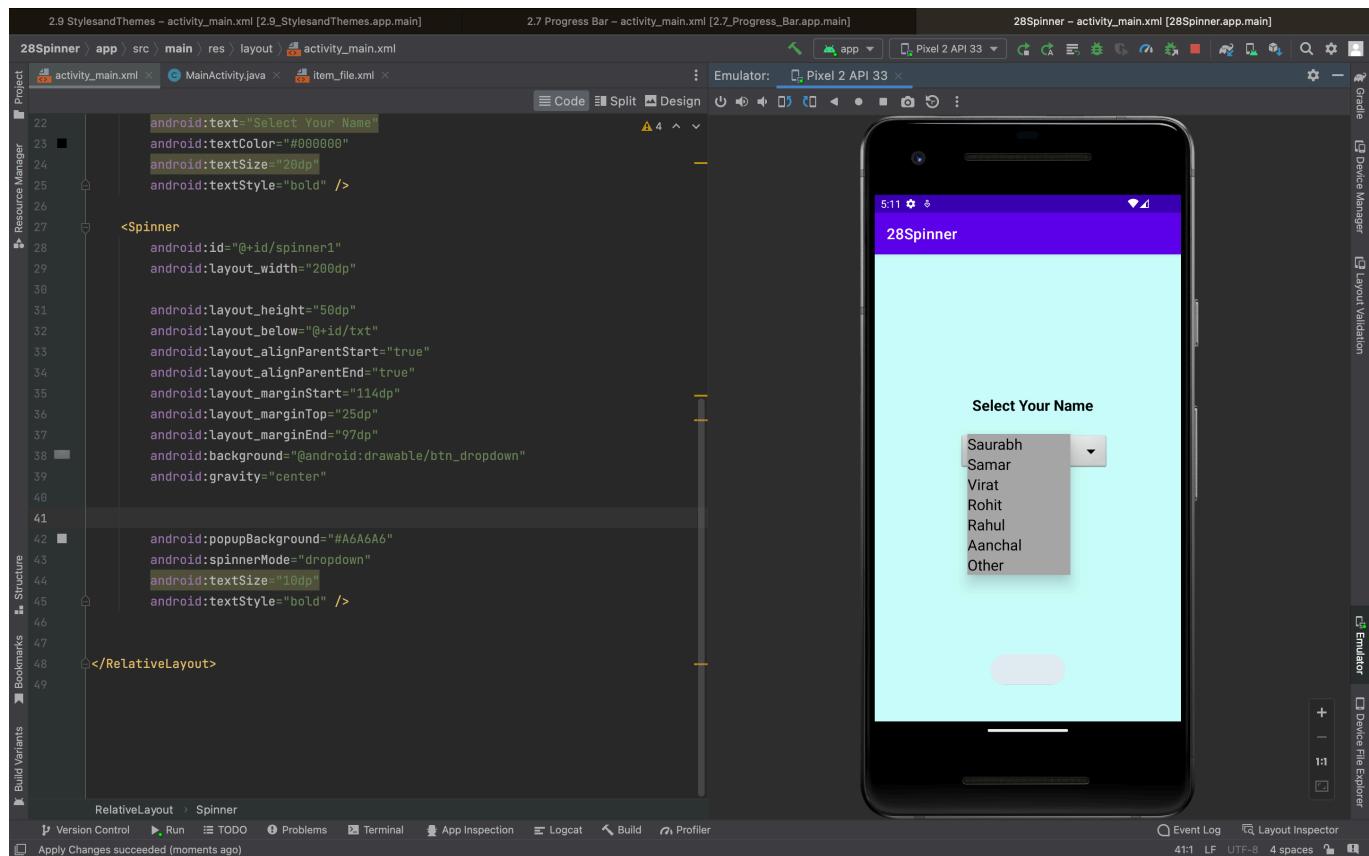
2.9 StylesandThemes – activity_main.xml [2.9_StylesandThemes.app.main]
2.7 Progress Bar – activity_main.xml [2.7_Progress_Bar.app.main]
28Spinner – activity_main.xml [28Spinner.app.main]

activity_main.xml > MainActivity.java > item_file.xml > Emulator: Pixel 2 API 33

21
22    android:layout_marginEnd="117dp"
23    android:text="Select Your Name"
24    android:textColor="#000000"
25    android:textSize="20dp"
26    android:textStyle="bold" />
27
28    <Spinner
29        android:id="@+id/spinner1"
30        android:layout_width="200dp"
31
32        android:layout_height="50dp"
33        android:layout_below="@+id/txt"
34        android:layout_alignParentStart="true"
35        android:layout_alignParentEnd="true"
36        android:layout_marginStart="114dp"
37        android:layout_marginTop="25dp"
38        android:layout_marginEnd="97dp"
39        android:background="@android:drawable/btn_dropdown"
40        android:gravity="center"
41
42        android:popupBackground="#FF0000"
43        android:spinnerMode="dialog"
44        android:textSize="10dp"
45        android:textStyle="bold" />
46
47    <RelativeLayout
48
49

```

### a. Spinner with dropdown



## 2.9 Date Picker

2.7 Progress Bar – MainActivity.java [2.7\_Progress\_Bar.app.main]

2.8\_Date\_Picker – activity\_main.xml [2.8\_Date\_Picker.app.main]

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res-auto"
    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"
    android:background="#C6AF8C"
    >

    <Button
        android:id="@+id/EditText1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Get Date"
        android:textSize="10sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:id="@+id/TextView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="47dp"
        android:textSize="25sp"
        android:text="Click Button to Open Calendar"
        android:textStyle="bold"
        app:layout_constraintBottom_toTopOf="@+id/EditText1"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        >

```

Resource Manager      Project      Bookmarks      Build Variants      Structure      Bookmarks      Build Variants      Structure

Version Control    Run    TODO    Problems    Terminal    Logcat    App Inspection    Build    Profiler

Emulator: Pixel 2 API 33      Device File Explorer      Device Manager

Event Log      Layout Inspector

41:1 LF    UTF-8    4 spaces

2.7 Progress Bar – MainActivity.java [2.7\_Progress\_Bar.app.main]

2.8\_Date\_Picker – MainActivity.java [2.8\_Date\_Picker.app.main]

```

import ...

public class MainActivity extends AppCompatActivity {

    Button dateFormat;
    TextView textView;
    int year;
    int month;
    int day;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        dateFormat = (Button) findViewById(R.id.EditText1);
        textView = (TextView) findViewById(R.id.TextView1);
        Calendar calendar = Calendar.getInstance();
        dateFormat.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                year=calendar.get(Calendar.YEAR);
                month = calendar.get(Calendar.MONTH);
                day=calendar.get(Calendar.DAY_OF_MONTH);

                DatePickerDialog datePickerDialog= new DatePickerDialog( context: MainActivity.this, new
                    @Override
                    public void onDateSet(DatePicker datePicker, int i, int i1, int i2) {
                        textView.setText(SimpleDateFormat.getInstance().format(calendar.getTime()));
                    }
                },year,month,day);
                datePickerDialog.show();
            }
        });
    }
}

```

Resource Manager      Project      Bookmarks      Build Variants      Structure      Bookmarks      Build Variants      Structure

Version Control    Run    TODO    Problems    Terminal    Logcat    App Inspection    Build    Profiler

Emulator: Pixel 2 API 33      Device File Explorer      Device Manager

Event Log      Layout Inspector

44:101 LF    UTF-8    4 spaces

Name : Saurabh Singh

Roll No: 20154

Assignment No. : 2.6 - 2.8

Semester : V

The screenshot shows the Android Studio interface with two tabs open: "2.7 Progress Bar – MainActivity.java [2.7\_Progress\_Bar.app.main]" and "2.8\_Date\_Picker – MainActivity.java [2.8\_Date\_Picker.app.main]".

**2.7\_Progress\_Bar – MainActivity.java:**

```
import ...  
public class MainActivity extends AppCompatActivity {  
    Button dateFormat;  
    TextView textView;  
    int year;  
    int month;  
    int day;  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_main);  
        dateFormat = (Button) findViewById(R.id.EditText1);  
        textView = (TextView) findViewById((R.id.TextView1));  
        Calendar calendar = Calendar.getInstance();  
        dateFormat.setOnClickListener(new View.OnClickListener() {  
            @Override  
            public void onClick(View view) {  
                year=calendar.get(Calendar.YEAR);  
                month = calendar.get(Calendar.MONTH);  
                day=calendar.get(Calendar.DAY_OF_MONTH);  
  
                DatePickerDialog datePickerDialog= new DatePickerDialog(context: MainActivity.this, new  
                @Override  
                public void onDateSet(DatePicker datePicker, int i, int i1, int i2) {  
                    textView.setText(SimpleDateFormat.getInstance().format(calendar.getTime()))  
                }  
                },year,month,day);  
                datePickerDialog.show();  
            }  
        });  
    }  
}
```

**2.8\_Date\_Picker – MainActivity.java:**

```
import ...  
public class MainActivity extends AppCompatActivity {  
    Button dateFormat;  
    TextView textView;  
    int year;  
    int month;  
    int day;  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_main);  
        dateFormat = (Button) findViewById(R.id.EditText1);  
        textView = (TextView) findViewById((R.id.TextView1));  
        Calendar calendar = Calendar.getInstance();  
        dateFormat.setOnClickListener(new View.OnClickListener() {  
            @Override  
            public void onClick(View view) {  
                year=calendar.get(Calendar.YEAR);  
                month = calendar.get(Calendar.MONTH);  
                day=calendar.get(Calendar.DAY_OF_MONTH);  
  
                DatePickerDialog datePickerDialog= new DatePickerDialog(context: MainActivity.this, new  
                @Override  
                public void onDateSet(DatePicker datePicker, int i, int i1, int i2) {  
                    textView.setText(SimpleDateFormat.getInstance().format(calendar.getTime()))  
                }  
                },year,month,day);  
                datePickerDialog.show();  
            }  
        });  
    }  
}
```

The right side of the screen shows an emulator for a Pixel 2 API 33 device. The app's title bar says "2.8\_Date\_Picker". The main screen displays the date "11/3/22 5:24 AM" and a blue button labeled "GET DATE".