Exercise:

- 1. Write a program to display circular progress bar.
 - activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<AbsoluteLayout
xmlns:android="http://schemas.android.
com/apk/res/android"
xmlns:tools="http://schemas.android.co
m/tools"
 android:layout width="match parent"
 android:layout height="match parent"
  android:orientation="vertical"
  android:gravity="center"
  android:background="@drawable/bg"
 tools:context=".MainActivity">
  <ProgressBar
    android:id="@+id/progressBar"
    android:layout width="200dp"
    android:layout height="200dp"
    android:layout y="150dp"
    android:layout x="100dp"
    android:indeterminateOnly="false"
```

```
android:progressDrawable="@drawable/
custom progress"/>
  <TextView
    android:id="@+id/textView1"
 android:layout width="wrap content"
android:layout height="wrap content"
    android:layout y="235dp"
    android:layout x="180dp"
android:layout centerHorizontal="true"
    android:text="0/100" />
  <Button android:id="@+id/b1"
android:layout width="wrap content"
 android:layout height="wrap content"
    android:layout y="350dp"
    android:layout x="130dp"
    android:text="Start Progress"
    android:textAllCaps="false"
 android:layout marginTop="16dp"/>
</AbsoluteLayout>
```

acitivitymain.java

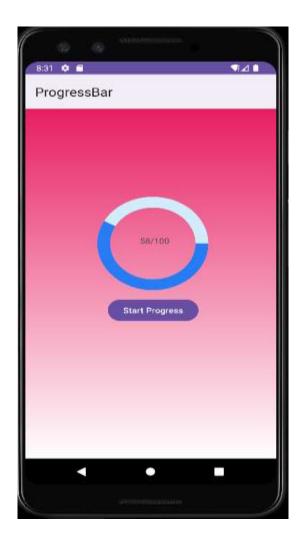
```
package com.example.pr13q1;
import androidx.appcompat.app.
AppCompatActivity;
import android.os.Bundle;
import android.os. Handler;
import android.view.View;
import android.widget.Button;
import android.widget.ProgressBar;
import android.widget.TextView;
public class MainActivity extends
AppCompatActivity {private
ProgressBar progressBar;
private int progressStatus = 0;
private TextView textView;
private Handler handler = new
Handler(); private Button startButton;
  protected void on Create (Bundle
savedInstanceState)
super.onCreate(savedInstanceState);
setContentView(R.layout.activity main);
progressBar = findViewById (R.id.
progressBar);
textView = findViewById(R.id
.textView1);
startButton = findViewById(R.id.b1);
```

```
startButton.setOnClickListener(new
View.OnClickListener() {
public void onClick(View v) {
new Thread(new Runnable() {
public void run() {
while (progressStatus < 100) {
progressStatus += 1;
handler.post(new Runnable() {
public void run() {
progressBar.setProgress(progressStatus);
textView.setText(progressStatus + "/" +
progressBar.getMax());
}});
try {Thread.sleep(200);
} catch (InterruptedException e) {
e.printStackTrace();}}}).start();
      } });}}
```

• bg.xml

• custom_progress.xml

OUTPUT:



2. Write a program for following output.

activity_main.xml

• acitivitymain.java

```
android:text="Start"
android:layout_x="80dp"
android:layout_y="400dp"
android:textSize="25dp"
android:layout_centerInParent="true"/>
<TextView
android:id="@+id/textView"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_x="130dp"
android:layout_y="500dp"
android:textSize="30dp"
android:textSize="30dp"
android:text="0/100"/>
</AbsoluteLayout>
```

```
package com.example.pr13q2;
androidx.appcompat.app.AppCompatAct
import android.app.ProgressDialog;
import android.os.Bundle:
import android.os. Handler;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
public class MainActivity extends
AppCompatActivity {
  private ProgressDialog progressDialog;
  private int progressStatus = 0;
  private TextView textView;
  private Handler handler = new
Handler();
  private Button startButton;
  protected void onCreate(Bundle
savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity main);
textView = findViewById(R.id.textView);
startButton = findViewById(R.id.b1);
startButton.setOnClickListener(new
View.OnClickListener() {
public void onClick(View v) {
progressDialog = new
ProgressDialog(MainActivity.this);
progressDialog.setMessage("Downloadin
g file...");
progressDialog.setCancelable(false);
```

```
progressDialog.setProgressStyle(Progress
Dialog.STYLE HORIZONTAL);
progressDialog.setProgress(0);
progressDialog.setMax(100);
progressDialog.show();
new Thread(new Runnable() {
public void run() {while (progressStatus <</pre>
100) {progressStatus += 1;
handler.post(new Runnable() {
public void run() {
progressDialog.setProgress(progressStatu
textView.setText(progressStatus + "/" +
progressDialog.getMax());}});
try {Thread.sleep(200);
                } catch
(InterruptedException e) {
e.printStackTrace();}}
progressDialog.dismiss();
}}).start();
}
});
}
```

```
<?xml version="1.0" encoding="utf-8"?>
< shapexmlns:android="http:// schemas.android.com/apk/res/android">
<gradient android:type="linear"
android:angle="100"android:startColor="#F91F63"android:endColor="@color/white"/>
```

android:angle="100"android:startColor="#E91E63"android:endColor="@color/white"/> </shape>

OUTPUT:

