**Practical 13**

1. Write a Program to display circular progress bar

Xml Code :

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout

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

android:layout\_width="fill\_parent"

android:layout\_height="fill\_parent"

android:orientation="vertical" >

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Cicular Progress Bar"

android:textSize="30sp"

android:layout\_gravity="center"

android:layout\_marginTop="30dp"

A screenshot of a computer

Description automatically generated with medium confidence />

<ProgressBar

android:indeterminate="false"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_gravity="center"

android:layout\_marginTop="50dp"

/>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textSize="20sp"

android:text="DOWNLOADING FILE"

android:layout\_gravity="center"

android:layout\_marginTop="30dp"

/>

</LinearLayout>

Output:

1. Write a Program to display the following output.

Xml Code :

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical">

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/btn"

android:layout\_marginTop="100dp"

android:backgroundTint="@color/black"

android:layout\_gravity="center"

android:text="Download File"

android:textSize="30dp"

android:padding="10dp"

/>

</LinearLayout>

Java Code :

package com.example.exp13;

import androidx.appcompat.app.AppCompatActivity;

import android.app.ProgressDialog;

import android.os.Bundle;

import android.os.Handler;

import android.view.View;

import android.widget.Button;

public class MainActivity2 extends AppCompatActivity {

Button btnStartProgress;

ProgressDialog progressBar;

private int progressBarStatus = 0;

private Handler progressBarHandler = new Handler();

private long fileSize = 0;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main2);

addProgressBarOnButtonClick();

}

public void addProgressBarOnButtonClick() {

btnStartProgress = findViewById(R.id.btn);

btnStartProgress.setOnClickListener(new View.OnClickListener(){

@Override

public void onClick(View v) {

progressBar = new ProgressDialog(v.getContext());

progressBar.setCancelable(true);

progressBar.setMessage("File Downloading ...");

progressBar.setProgressStyle(ProgressDialog.STYLE\_HORIZONTAL);

progressBar.setProgress(0);

progressBar.setMax(100);

progressBar.show();

progressBarStatus = 0;

fileSize = 0;

new Thread(new Runnable() {

public void run() {

while (progressBarStatus < 100) {

progressBarStatus = doOperation();

try

{

Thread.sleep(1000);

} catch (InterruptedException e)

{

e.printStackTrace();

}

progressBarHandler.post(new Runnable() {

public void run() {

progressBar.setProgress(progressBarStatus);

}

});

}

if (progressBarStatus >= 100) {

try {

Thread.sleep(1000);

} catch (InterruptedException e) {

e.printStackTrace();

}

progressBar.dismiss();

}

}

}).start();

}

});

}

public int doOperation() {

while (fileSize <= 100000) {

fileSize++;

if (fileSize == 10000) {

return 10;

}

else if (fileSize == 20000) {

return 20;

}

else if (fileSize == 30000) {

return 30;

}

else if (fileSize == 40000) {

return 40;

}

else if (fileSize == 50000) {

return 50;

}

else if (fileSize == 60000) {

return 60;

}

else if (fileSize == 70000) {

return 70;

}

}

return 100;

}

}

Output:

 