Name: Aditya Choudhary Roll no: 19406 MAD Experiments

Practical 13

1. Write a Program to display circular progress bar

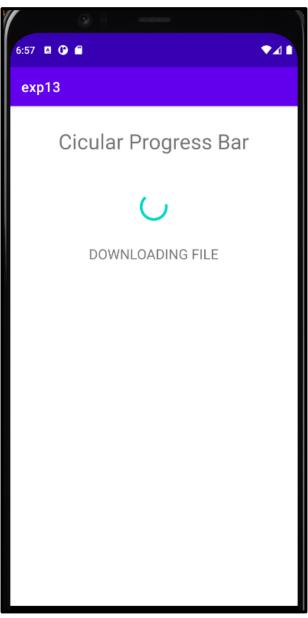
Xml Code :

```
<?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"
  <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"

Output:

</LinearLayout>



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2. 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);
```

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```
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         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;
```

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Output:



