*Avtivity\_Main.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"  
 tools:context=".MainActivity">  
  
 <Button  
 android:id="@+id/button"  
 android:layout\_width="match\_parent"  
 android:layout\_margin="25dp"  
 android:layout\_height="wrap\_content"  
 android:text="Start"  
 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="0.702" />  
  
 <ProgressBar  
 android:id="@+id/progressBar2"  
 style="?android:attr/progressBarStyleHorizontal"  
 android:layout\_width="345dp"  
 android:layout\_height="32dp"  
  
  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.392"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.418" />  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Progress Bar"  
 android:textSize="45dp"  
 android:textAlignment="center"  
 android:textColor="#785412"  
 app:layout\_constraintBottom\_toTopOf="@+id/progressBar2"  
 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="0.106" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

Mainactivity.java

package com.example.lab4;  
  
import androidx.appcompat.app.AlertDialog;  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.DialogInterface;  
import android.os.Bundle;  
import android.os.CountDownTimer;  
import android.util.Log;  
import android.view.View;  
import android.widget.Button;  
import android.widget.ProgressBar;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
 public Button button;  
 ProgressBar Progress;  
 CountDownTimer t;  
 float total;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 button=findViewById(R.id.*button*);  
 Progress=findViewById(R.id.*progressBar2*);  
  
 Progress.setVisibility(View.*INVISIBLE*);  
 Progress.setMax(100);  
 button.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 Progress.setVisibility(View.*VISIBLE*);  
 long min= 10\*1000;*//second \* milisecond;* new CountDownTimer(min,1000)  
 {  
 @Override  
 public void onTick(long l) {  
 long a = min-l;  
 total= ((float)a/(float)min)\*100;  
 Log.*e*("Total", String.*valueOf*( (a/min)));  
 Progress.setProgress((int) total);  
 }  
  
 @Override  
 public void onFinish() {  
 AlertDialog.Builder d = new AlertDialog.Builder(MainActivity.this);  
 d.setTitle(" Completed ").setMessage(" Loding as Been Completed").setPositiveButton("Yes", new DialogInterface.OnClickListener() {  
 @Override  
 public void onClick(DialogInterface dialogInterface, int i) {  
 Toast.*makeText*(MainActivity.this,"DOne",Toast.*LENGTH\_LONG*).show();  
 }  
 });  
 AlertDialog dialog = d.create();  
 dialog.show();  
 }  
 }.start();  
}  
 });  
 }  
  
 }