Fibonacci

Activity \_main.xml

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

<android.support.constraint.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">

<TextView

android:id="@+id/tv"

android:layout\_width="230dp"

android:layout\_height="232dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.497"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.452" />

<TextView

android:id="@+id/textView5"

android:layout\_width="252dp"

android:layout\_height="97dp"

android:gravity="center"

android:text="FIBONACCI SERIES"

android:textColor="@color/purple\_700"

android:textSize="23dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.427"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.025" />

</android.support.constraint.ConstraintLayout>

Main\_activity.java

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package com.example.fibonacci;

import android.content.Intent;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.util.Log;

import android.widget.TextView;

import java.util.Arrays;

public class MainActivity extends AppCompatActivity {

private static final String TAG="MainActivity";

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

int N=15;

TextView tv2=findViewById(R.id.tv);

String res = nFib(N);

tv2.setText(res);

}

private String nFib(int N) {

if (N>0){

long res[]=new long[N];

res[0]=res[1]=1;

for(int i=2;i<=N-1;i++){

res[i]=res[i-1]+res[i-2];

}

for (long result:res){

Log.d(TAG,String.valueOf(res));

}

Log.d(TAG,"The 15 th fibonacci number is"+res[N-1]);

return Arrays.toString(res);

}

return "Not a valid value of N";

}

}

Output

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