REPORT ON INSTAGRAM GROWTH CALCULATER

NAME: PRAJWAL.M.S

USN: 1VE18EC070

COLLAGE: SRI VENKATESHWARA COLLAGE OF ENGINEERING

OVERVIEW

The Instagram Business growth Calculator is used to

- Determine Follower Growth Rate of the Instagram Business Account
- To make it easier for the Instagram user to track follower growth over time, this helps the Instagramuserdeterminehisfu- turegoalsashewouldhavearoughpictureofwherehe'dstand in building a greater audience for his business

GOALS

1. Help determine the follower growth of an Instagram account

2. Analysis of business goals

3. Help build a better community

SPECIFICATIONS

Here we consider the current number of followers, growth rate(in %age), decrease in followers per month(in %age), number of posts made per month and derive a mathematical formula to calculate the growth rate and use the same and run the program.

TOOLS USED

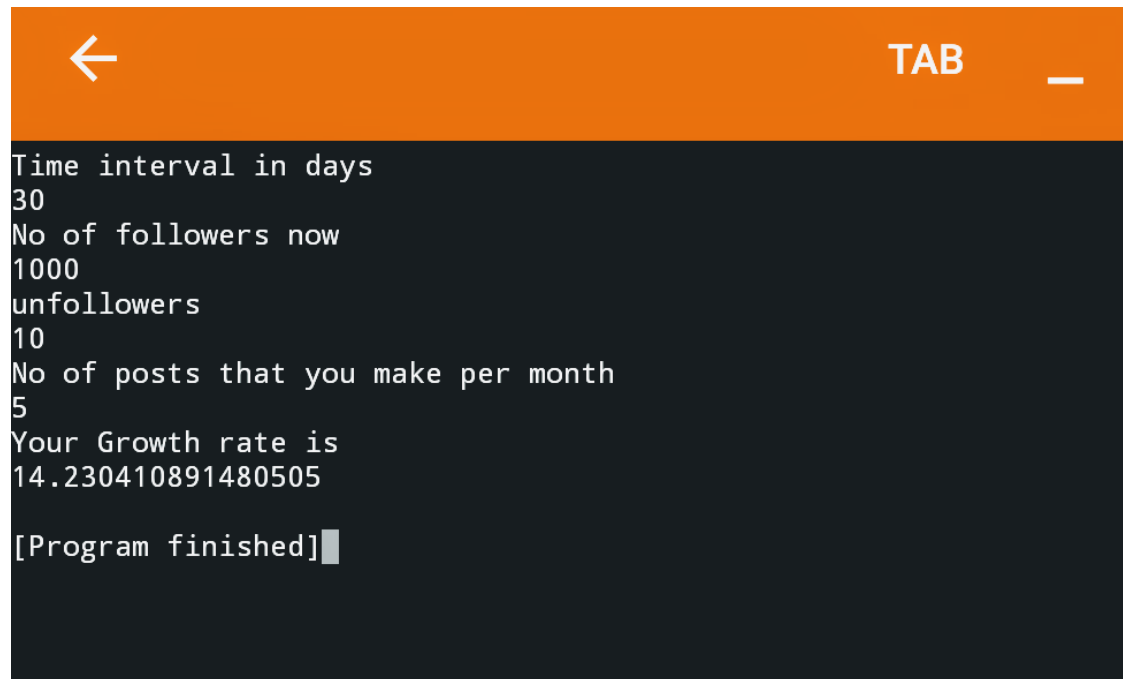- Online java editor (Tutorial point)
- Jvdroid

SOURCE CODE:

```java
import java.util.Scanner;
//prajwalms
//1ve18ec070
//sri venkateshwara collage of engineering
//gowdaprajwal009@gmail.com
public class main{
public static void main(String[]args){
//a=no of followers currently_1000
//b=unfollowers
//c=no of posts that you make per month
//r=rate of growth
//t=time
//r=((a^1/t-b)*c)*100
System.out.println("Time interval in days");
Scanner scan1=new Scanner(System.in);
float t=scan1.nextFloat();
System.out.println("No of followers now");
Scanner Scan2=new Scanner(System.in);
float a=Scan2.nextFloat();
System.out.println("unfollowers");
Scanner Scan3=new Scanner(System.in);
float b=Scan3.nextFloat();
System.out.println("No of posts that you make per month");
Scanner Scan4=new Scanner(System.in);
float c=Scan4.nextFloat();
System.out.println("Your Growth rate is");
System.out.println(calculateGR(t,a,b,c));
}
public  static  double  calculateGR(float  t,float  a,fl
b,float c){
double T=1/t;
double A=b/a; //unfollowers/Followers
double res=Math.pow(A, T);
double r=Math.abs((res-1)*100);
return r;
}
}
```

INPUT:

```java
import java.util.Scanner;
//Prajwal.M.S
//6363302562
//Sri Venkateshwara Collage Of Engineering
//gowdaprajwal009@gmail.com
public class main{
public static void main(String[]args){
//a=no of followers currently_1000
//b=unfollowers
//c=no of posts that you make per month
//r=rate of growth
//t=time
//r=((a^1/t-b)*c)*100
System.out.println("Time interval in days");
Scanner scan1=new Scanner(System.in);
float t=scan1.nextFloat();
System.out.println("No of followers now");
Scanner scan2=new Scanner(System.in);
float a=scan2.nextFloat();
System.out.println("unfollowers");
Scanner scan3=new Scanner(System.in);
float b=scan3.nextFloat();
System.out.println("No of posts that you make per
month");
Scanner scan4=new Scanner(System.in);
float c=scan4.nextFloat();
System.out.println("Your Growth rate is");
System.out.println(calculateGR(t,a,b,c));
}
public static double calculateGR(float t,float a,float
b,float c){
double T=1/t;
double A=b/a; //unfollowers/Followers
double res=Math.pow(A, T);
double r=Math.abs((res-1)*100);
return r;
}
}
```
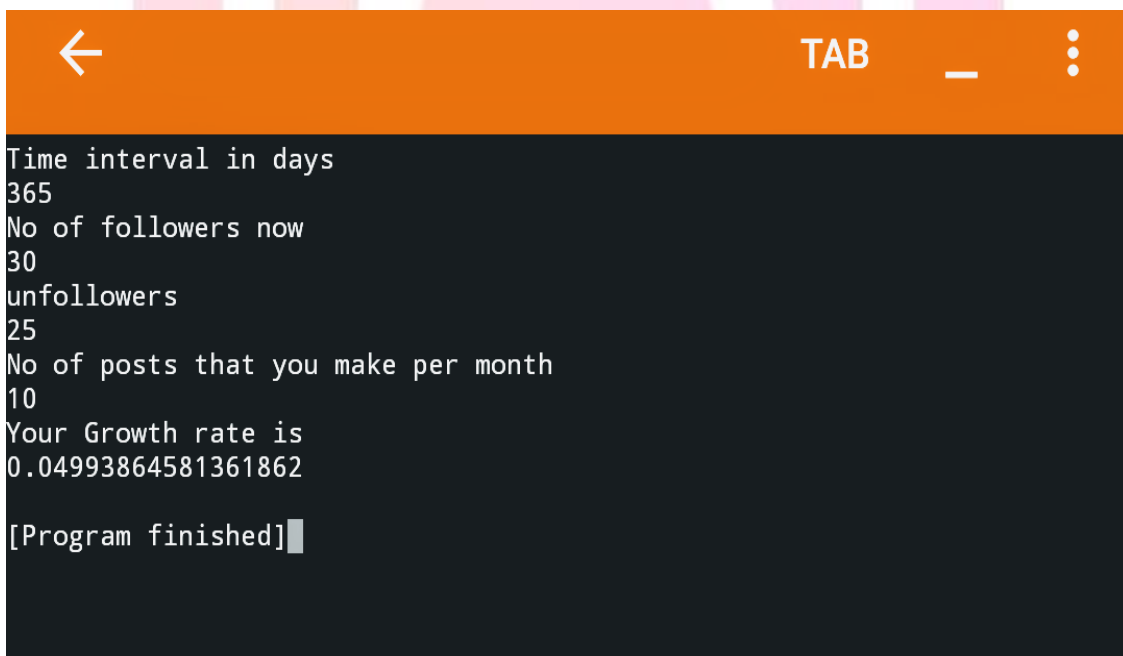
Tab | { | } | = | ; | < |

OUTPUT:

←   TAB   _

```
Time interval in days
30
No of followers now
1000
unfollowers
10
No of posts that you make per month
5
Your Growth rate is
14.230410891480505

[Program finished]
```

←   TAB   _   ⋮

```
Time interval in days
365
No of followers now
30
unfollowers
25
No of posts that you make per month
10
Your Growth rate is
0.04993864581361862

[Program finished]
```

NAME : PRAJWAL.M.S
MOBILE NO : +91 6363 302 562
E MAIL : gowdaprajwal009@gmail.com