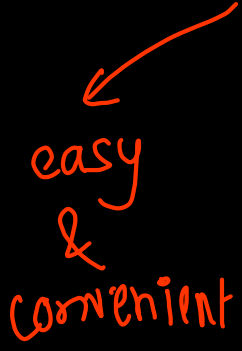
Coding or Programming

Machine language → 0 ors 1s

High level language → Java



IDE ⇒ Integrated Development Environment

⇒ Online IDE { leetcode }

Avchit Aggarwal

Salesforce → SDE

3 batches

DTU

Competive Programming

Slack

LinkedIn

```java
public class Main {
    public static void main(String[] args) {
        System.out.print("Hello World");
    }
}
```

```java
System.out.print("Geekster");
System.out.println("FS 11 A");
System.out.print("PreCourse");
```

Geekster FS 11 A
PreCourse

```java
System.out.println(10 + 20);
System.out.println(10 - 20);
System.out.println(10 * 20);
System.out.println(10 / 20);
```

integer addition = 30

integer Subtraction = -10

integer multiplication = 200

integer division = $\frac{10}{20} = \lfloor 0.5 \rfloor = 0$

floor division

```java
System.out.println(10 + 20);
System.out.println(10 - 20);
System.out.println(10 * 20);

System.out.println(10 / 20);
System.out.println(30 / 20);
System.out.println(40 / 20);
System.out.println(10 / 3);

System.out.println(10.0 / 20);
System.out.println(10 / 3.0);
System.out.println(40.0 / 20.0);
```

float division

Any

0.5

3.33

2.0

```
System.out.println("10 + 20");
System.out.println("10" + "20");
```

→ 10 + 20

→ 1020

Concatenar (joining)

```
System.out.println(10 + 20 + "Archit" + 10 + 20);
```

added

concatenate

10 + 20

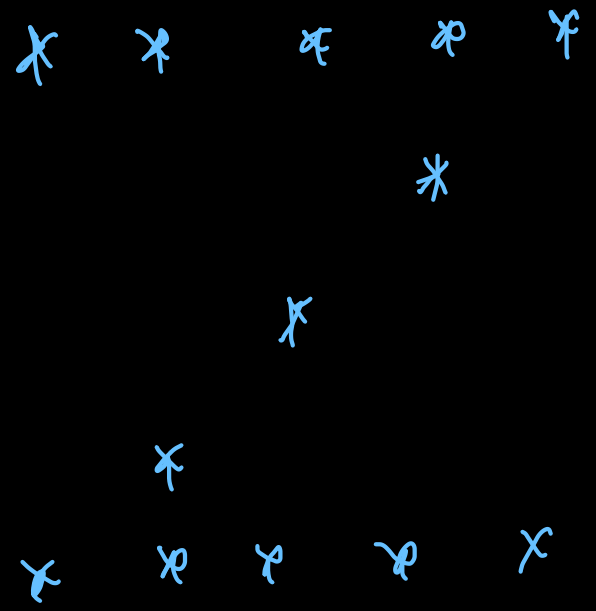
= "30" + "Archit"

= "30Archit" + "10"

= "30Archit10" + "20"

= "30Archit1020"

```
public class Main {
    public static void main(String[] args) {
```



```
System.out.println("******");
System.out.println("    *");
System.out.println("   *");
System.out.println("  *");
System.out.println("******");
```

Welcome to Java!

Problem | Submissions | Leaderboard | Discussions

→ monitor's screen

Welcome to the world of Java! In this challenge, we practice printing to stdout.

The code stubs in your editor declare a *Solution* class and a *main* method. Complete the *main* method by copying the two lines of code below and pasting them inside the body of your *main* method.

```
System.out.println("Hello, World.");
System.out.println("Hello, Java.");
```

} Problem Statement

Input Format

stdin → keyboard

There is no input for this challenge.

Output Format

You must print two lines of output:

1. Print `Hello, World.` on the first line.
2. Print `Hello, Java.` on the second line.

Sample Output

```
Hello, World.
Hello, Java.
```

```java
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        System.out.println("Hello, World.");
        System.out.println("Hello, Java.");
    }
}
```

Test case → visible (sample) run

Test case → hidden Submit

Variables

datatypes

- Integers → int : 10, 2, -50, 40, 0, ---
- Strings → String : "hello world", "archit", "9319117888"
- double → double : 10.2, 5.0, -2.5, 3.333, ---

Google map → cities → Strings
distance → int / double

```java
public class Main {
    public static void main(String[] args) {
        String firstname = "archit";

        System.out.println("firstname");
        System.out.println(firstname);
    }
}
```

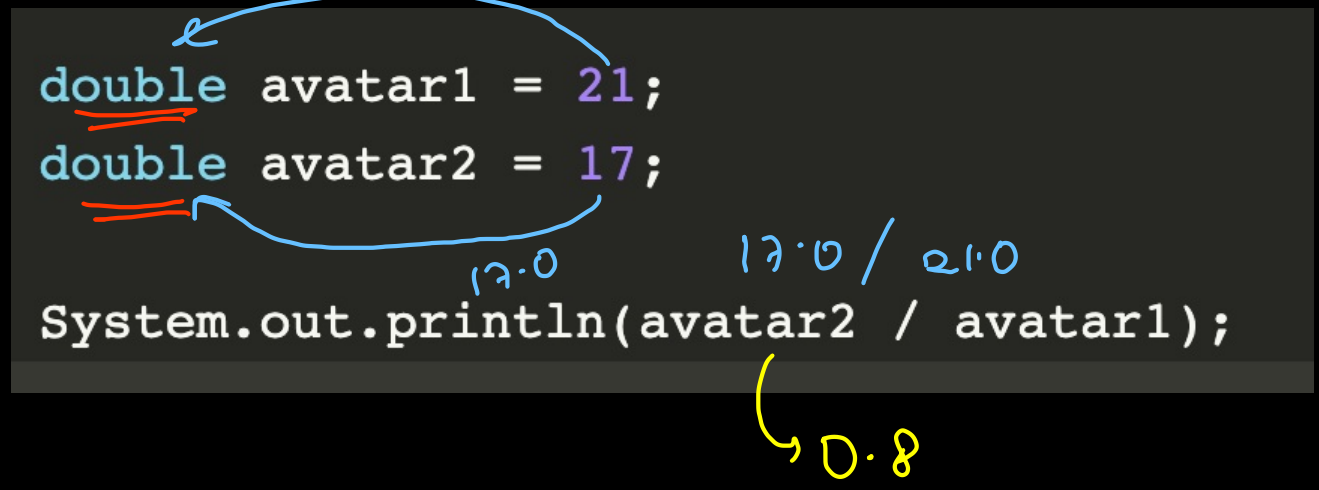
firstname

archit

```java
String firstname = "archit";

System.out.println("firstname");
System.out.println(firstname);

String pitch = "My company is Geekster. I want to take funding";
System.out.println(pitch);

pitch = "My company is Geekster. I want to give a counter offer";
System.out.println(pitch);

firstname = "Bittoo";  //updat
System.out.println(firstname);
```

180/120 = 3/2 = 1.5

Hardcoding


21.0
double avatar1 = 21;
double avatar2 = 17;
17.0
17.0 / 21.0
System.out.println(avatar2 / avatar1);
0.8

9:15 PM

Input from user

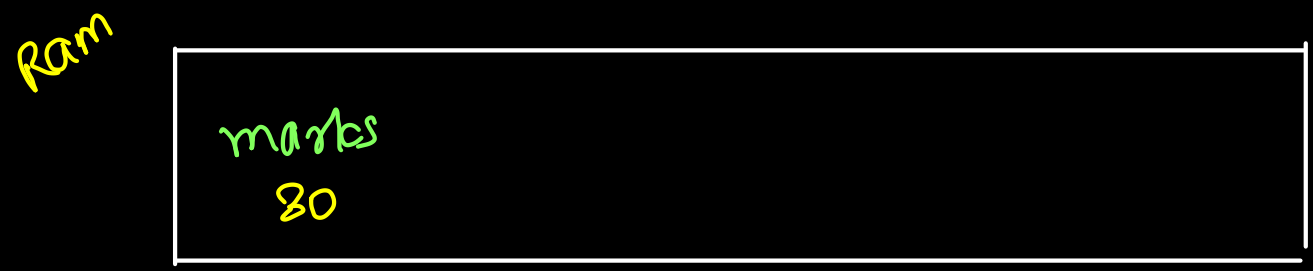
```
Scanner scn = new Scanner(System.in);
```

line before any input

```
int marks = scn.nextInt();
System.out.println(marks);
```

```java
Scanner scn = new Scanner(System.in);

int marks = scn.nextInt();
System.out.println(marks);
```

```
Finished in 140 ms
30
stdin
30
```



You will be given two integers x and y. You have to print the sum of x and y in the first line, and the difference of x and y in the second line.

First integer input should be stored in x, Second integer input should be stored in y.

Input Format

In the first line the value of x will be given and in the second line the value of y will be given.

Constraints

Only integers will be given as input.

Output Format

Sum of x and y will be printed in the first line i.e x+y Difference of x and y will be printed in the second line i.e x-y

```java
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);

        int x = scn.nextInt();
        int y = scn.nextInt();

        System.out.println(x + y);
        System.out.println(x - y);
    }
}
```

Submissions: 1004

20

Submissions: 80