

Java - Variables

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<https://github.com/wbombardellis/java-unterricht>

25 September 2019

Organization

1 Model of Computation

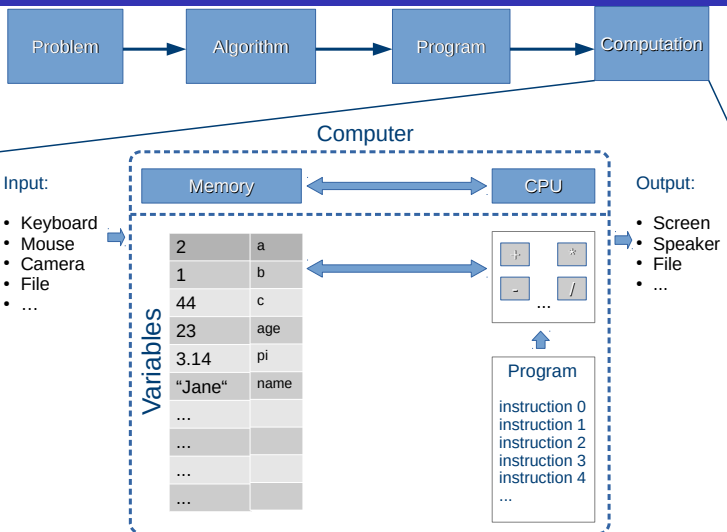
2 Variables in Java

3 Summary

Algorithm Review

<https://www.youtube.com/watch?v=CvS0aYi89B4> (Until 3:12)

Model of Computation



Variables in Java

```
int a;  
a = 10;  
int b;  
b = 1;  
int c;  
c = a + b;  
System.out.println(c);
```

Variables in Java with Input

```
Scanner reader = new Scanner(System.in);  
int a = reader.nextInt();  
int b = 1;  
int c = a + b;  
System.out.println(c);
```

Exercises

- Write a program in Java that reads two integer values from the keyboard and prints their sum, difference, product and division at the screen/ console.

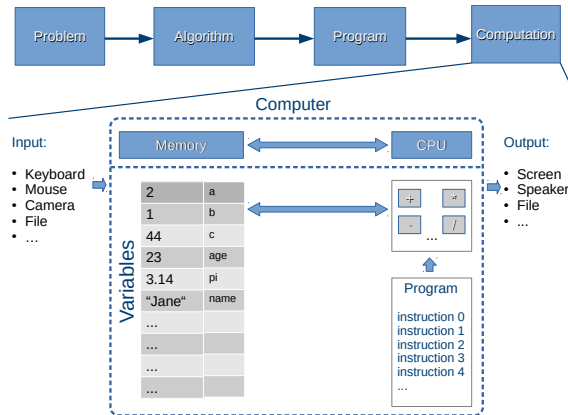
Exercises

- Write a program in Java that reads two integer values from the keyboard and prints their sum, difference, product and division at the screen/ console.
- Write a program in Java that calculates and prints the area A of a triangle after reading its base b and height h from the user's keyboard. Remember: $A = \frac{b \times h}{2}$

Exercises

- Write a program in Java that reads two integer values from the keyboard and prints their sum, difference, product and division at the screen/ console.
- Write a program in Java that calculates and prints the area A of a triangle after reading its base b and height h from the user's keyboard. Remember: $A = \frac{b \times h}{2}$
- Write a program in Java that calculates and prints the area A of a triangle with side lengths a , b and c . For that you can use the Heron's formula $A = \sqrt{s \cdot (s - a) \cdot (s - b) \cdot (s - c)}$ where $s = \frac{a+b+c}{2}$ is the semi-perimeter of the triangle.

Summary



■ Next Week: Data Types

References

■ W3C Tutorial:

- https://www.w3schools.com/java/java_variables.asp
- https://www.w3schools.com/java/java_operators.asp
- https://www.w3schools.com/java/java_math.asp

■ Exercises:

<https://www.w3schools.com/java/exercise.asp>

- Java Variables
- Java Operators