Java - Variables

William Bombardelli

Schweizerschule Mexiko, Ciudad de México, Mexico E-Mail...

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1/8

W. Bombardelli Schweizerschule Mexiko

Organization

- 1 Model of Computation
- 2 Variables in Java
- 3 Summary

2/

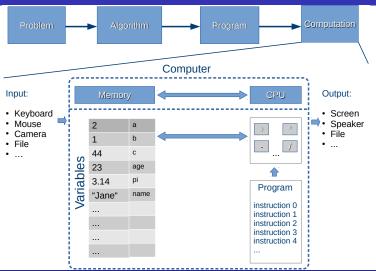
Algorithm Review

https://www.youtube.com/watch?v=CvSOaYi89B4 (Until 3:12)

3/8

Java

Model of Computation



4/8

Variables in Java

```
int a;

a = 10;

int b;

b = 1;

int c;

c = a + b;

System.out.println(c);
```

Java

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);
```



Java

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

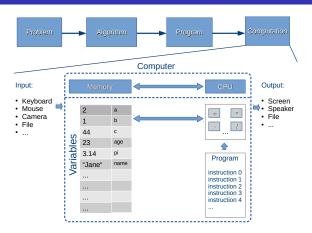
- Write a program in Java that reads two integer values from the keyboard and prints their sum, difference, product and division at the screen/ console.
- Write a program in Java that calculates and prints the area A of a triangle after reading its base b and height h from the user's keyboard. Remember: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

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.

7/8

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



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