Algorithms, Variables & Operators

/ code academy

Homework Check and Recap

Your time to speak!

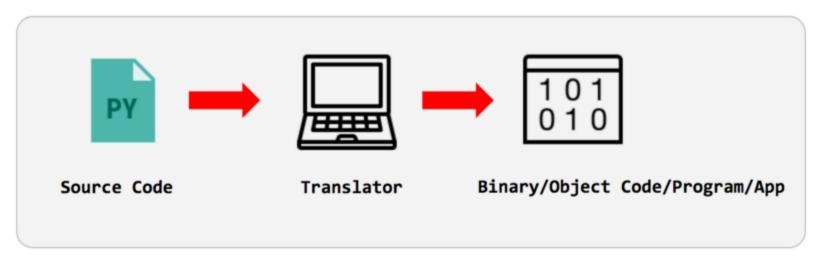
What is Programming

- Programming is the act of instructing computers to carry out tasks It is often referred to as coding
- What is a computer program: A computer program is a sequence of instructions that the computer executes.
- Analogies of Programming
- Programmer vs. Developer
- Office vs. Freelance
- Ex: Digitalisation of any problem that was previously done by hand / Excel

Binary Calculations

Decimal	Binary
0	0
1	1
2	10
3	11
4	100
7	111
8	1000
10	1010
16	10000
20	10100

Language Translators



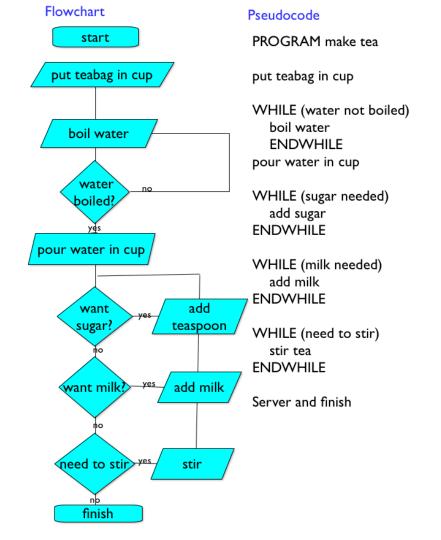
- Interpreters: execute line by line
- Compilers: execute whole binary file
- **Hybrids:** both, ex: Java
- Assemblers: Assembly to binary

Algorithm

- "Most optimal solution to a problem"
- What is a Flowchart?
- What is a Pseudocode?

Let's solve:

- Ex1: by me
- Ex2: together
- Ex3: by you



Variables and Operators

- +.-,*,/,%, <> =, etc.
- VAR
- Declaration and Overwriting
- Compare to JavaScript and PHP
- True and False

Homework

• 2 Algorithms to be represented in a Flowchart

