

Practice Quiz: Introduction to Programming

总分：5

1. What's a computer program?

1/1 分

- ☐ A set of languages available in the computer
- ☐ A process for getting duplicate values removed from a list
- ☒ A list of instructions that the computer has to follow to reach a goal
- ☐ A file that gets copied to all machines in the network



正确

You nailed it! At a basic level, a computer program is a recipe of instructions that tells your computer what to do.

2. What's the syntax of a language?

1/1 分

- ☒ The rules of how to express things in that language
- ☐ The subject of a sentence
- ☐ The difference between one language and another
- ☐ The meaning of the words



正确

Right on! In a human language, syntax is the rules for how a sentence is constructed, and in a programming language, syntax is the rules for how each instruction is written.

3. What's the difference between a program and a script?

1/1 分

- ☒ There's not much difference, but scripts are usually simpler and shorter.
- ☐ Scripts are only written in Python.
- ☐ Scripts can only be used for simple tasks.
- ☐ Programs are written by software engineers; scripts are written by system administrators.



正确

You got it! The line between a program and a script is blurry; scripts usually have a shorter development cycle. This means that scripts are shorter, simpler, and can be written very quickly.

4. Which of these scenarios are good candidates for automation? Select all that apply.

1/1 分

- ☒ Generating a sales report, split by region and product type



正确

Excellent! Creating a report that presents stored data in specific ways is a tedious task that can be easily automated.

- ☐ Creating your own startup company
- ☐ Helping a user who's having network troubles
- ☒ Copying a file to all computers in a company



正确

Nice work! A task like copying files to other computers is easily automated, and helps to reduce unnecessary manual work.

- ☐ Interviewing a candidate for a job
- ☒ Sending personalized emails to subscribers of your website



正确

Great job! Sending out periodic emails is a time-consuming task that can be easily automated, and you won't have to worry about forgetting to do it on a regular basis.

- ☐ Investigating the root cause of a machine failing to boot

5. What are semantics when applied to programming code and pseudocode?

1/1 分

- ☐ The rules for how a programming instruction is written
- ☐ The difference in number values in one instance of a script compared to another
- ☒ The effect the programming instructions have
- ☐ The end result of a programming instruction



正确

Nice job! Like human language, the intended meaning or effect of words, or in this case instructions, are referred to as semantics.