Describe what algorithms are.

Describe what programs are.

Describe differences between algorithms and programs.

Recall how machines need translators for executing programs.

Use an IDE to write and execute a Python program.

Locate and correct common syntax errors.

Use variables as counters in iterative programs.

Use Boolean variables as flags.

Use selection to control the flow of program execution.

Use iteration to control the flow of program execution.

Use binary selection to control the flow of program execution.

Walk through a sequence and sketch the state and output.

Walk through loops and sketch the state and output.

Use selection to control the flow of program execution.

Use iteration to control the flow of program execution.

Combine iteration and selection.

Describe input, process, and output in programs.

Describe variables and use them in programs.

Call functions and use the results that they return.

Control structures

Programming skills

General and Python-specific programming skills

Conceptual background

Language features

Programming constructs in Python

Output

print

Assignment (variables)

=,

Input (strings)

= int, float

Selection (binary)

if, elif, else

Selection

if

Iteration

while

Logical operators

and, or, not

Arithmetic operators

+,

==,

!=,

<,

<=,

>,

>=

Relational operators

in logical expressions

Basic

modularisation

random

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