

Algorithms II Cheat Sheet

Python Syntax

Action	Python code
Assign a variable	<pre>myVariable = 42 myOtherVariable = "Hello"</pre>
Print something	<pre>print("This will be printed")</pre>
Getting input	<pre>name = input("What is your name?") age = int(input("What is your age?"))</pre>
if/else	<pre>if age > 17: print("You are an adult") else: print("You are not an adult yet")</pre>
for loop	<pre>for i in range(0,10): print(i)</pre>
while loop	<pre>while(True): print("hello again")</pre>

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Keywords

Algorithms

Abstraction

Radioactive Decay

List

Decomposition

Radioactive Tracers

Half-life

Algorithms - is a set of simple instructions that are done in a certain order to solve a problem.

Decomposition - is the process of breaking a complex problem into smaller component parts.

Abstraction - is the process of removing unnecessary detail and simplifying. Abstraction is used to remove unnecessary detail from a real-world situation and to model the simplified result in an algorithm or program.

Radioactive Decay - is the process which an unstable nucleus goes through due to an imbalance between the numbers of protons and neutrons.

Radioactive Tracers - are used to treat conditions in the human body, doctors can trace the movement of these radioactive atoms as they move through the body's cells.

List - collects sequences of values.