

Chapter 1

Variable - a name associated with computer memory that can hold a value that can change or vary ex: score in a game

Example: Body Mass Index (BMI) - measure of body fat

BMI of 18.5 or less = under weight | BMI of 18.5-24.9 = health
BMI of 25-29.9 = over weight | BMI of 30+ = obese

To calculate - $BMI = (w/h^2) \cdot 703$

- ① height = 60, weight = 110 | $BMI = 21.490555$...
- ② height = 52, weight = 110 | $BMI = 28.59837278106509...$
- ③ height = 52, weight = 95 | $BMI = 24.69859467455621...$
- ④ $BMI = (w/h^2) \cdot 703$, height = 52, weight = 95 | $BMI = 2.56471893491...$
- ⑤ height = 67, weight = 140 | $BMI = 21.92470483403976...$

String - a sequence of characters using one two or three quotes. You can use "+" to combine strings and "*" to repeat them.

to use - create variable, print variable, repeat

example 1

- 1 One = "Hi"
- 2 Two = "Hello"
- 3 print((Hi + Hello)*2)

HiHelloHiHello

example 2

- 1 First = "Hello there"
- 2 print(First)
- 3 next = "Welcome here"
- 4 print(next)

Hello there
Welcome here

Dot notation - a way to tell a string how we want it to change

example

- 1 statement = "GOOD MORNING"
- 2 better = statement.lower()
- 3 print(better)
- 4 even_better = better.capitalize()
- 5 print(even_better)

good morning
Good morning.

comment = #