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# Women in STEM Spotlight

- Egyptian-American computer scientist and CEO of AI software company Affectiva
- One of Forbes' Top 50 Women in Tech
- Driver of AI research, especially emotional recognition in AI softwares
- Applied AI into bettering communication for people with autism or mental health struggles
- Author of Girl Decoded

### Refresher!

### Which one is an assignment operator?

- A. #
- B. =
- C. ==

### Variables can store...

- A. strings
- B. lists
- C. integers
- D. All of the above!

print('hello') and print("hello \nworld") are valid print statements:

- A. True
- B. False



### Refresher! - Answers

Which one is an assignment operator?

#

#### Variables can store...

strings

lists

integers

All of the above!

print('hello') and print("hello \nworld") are valid print statements:

True

False

### Data Types

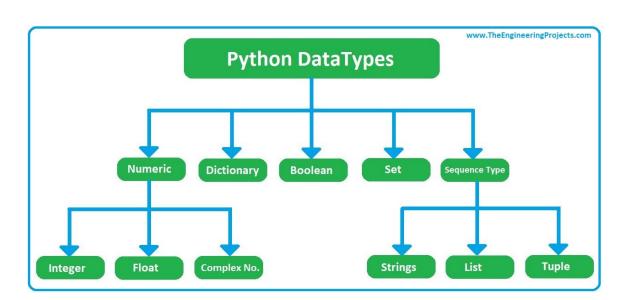
What are data types?

- Stored in variables
- Have different properties

Use **type()** to find a variable's data type:

age = 12
print(type(age))

Output: <class 'int'>



## **Arithmetic Operations**

Can use many arithmetic operators in python

- + addition
- - subtraction
- \* multiplication
- / division

Other operators:

% modulus: returns the remainder

// integer division: returns the result of the division with no decimal places

#### What do these return?



### **New Functions**

### input()

- Takes user input to use in a program
- Allows for an interactive program

#### Ex:

input(str("Enter your name:"))

#### Console:

Enter your name:

### While-loop

- Runs code within the loop while a certain condition is met
- Can keep track of a variable
  - $\circ$  while (x > 0):
- Or run continuously
  - o while(True):





Code in the drive



Homework: Finish your calculator and add extra functions (exponential, remainder division)

See you next week!