Values, Types, Variables and Assignment

COSC 101: Lec 02
Types of Instructions in a Program

• input
• output
• math and logic
• conditional execution
• repetition
Find the Type of an Object

- `type()`
Changing the Type of an Object

- `int()`
- `str()`
- `float()`
Variables and Assignment

- the ‘=‘ operator
- legal names
Variables and Assignment

- print("Number of copies in CASE library:")
- print(1) # one copy at CASE
- print("Number of copies in Cooley library:")
- print(1) # one copy at Cooley
- print("Number of copies at Pace library:")
- print(3) # three copies at Pace
- print("There are \(1+1\), "copies available at Colgate.")
- print("There are", 1+1+3, "copies available in total.")
Variables and Assignment

• print(“Number of copies in CASE library:”)  
• print(1)  # one copy at CASE  
• print(“Number of copies in Cooley library:”)  
• print(1)  # one copy at Cooley  
• print(“Number of copies at Pace library:”)  
• print(3)  # three copies at Pace  
• print(“There are “, 1+1, “copies available at Colgate.”)  
• print(“There are”, 1+1+3, “copies available in total.”)
num_case = 1            # copies at CASE
num_cooley = 1          # copies at Cooley
num_pace = 3            # copies at Pace

print("Number of copies in CASE library:")
print(num_case)
print("Number of copies in Cooley library:")
print(num_cooley)
print("Number of copies at Pace library:")
print(num_pace)
print("There are ", num_case+num_cooley, "copies available at Colgate.")
print("There are", num_case+num_cooley+num_pace, "copies available in total.")
num_case = 4  # copies at CASE
num_cooley = 1  # copies at Cooley
num_pace = 3  # copies at Pace

print("Number of copies in CASE library:"")
print(num_case)
print("Number of copies in Cooley library:"")
print(num_cooley)
print("Number of copies at Pace library:"")
print(num_pace)
print("There are ", num_case+num_cooley, "copies available at Colgate.")
print("There are", num_case+num_cooley+num_pace, "copies available in total.")