*Python Basic Syntax Study Sheet Last Update 16 Aug ‘23*

identity operator: {a} is {b} (returns bool)

membership operator: {a} in {b} (returns bool)

defining a class: class myClass:

ternary operator: a if {condition} else b

(can set to var or return or print, etc.)

single line comment: #

multiline comment: ‘‘‘ before block, ’’’ after block

branching: if {condition}:

#things that happen if

elif {condition}:

#things that happen else if

(multiple elifs if necessary)

else:

# things that happen else

define a function foo with two arguments, one of which is an int, the other a list, and returns nothing (use typehints!)

def foo(arg1: int, arg2: list) -> None:

putting a long, for example, and condition on multiple lines:

while (condition\_one

and condition\_two) #use parentheses

meaning of the following binary operators (in format {a} operator {b})

\*\* exponentiation

// floor division

% modulo (remainder)

& bitwise AND

| bitwise OR

^ bitwise XOR (not exponentiation!!)

~ bitwise NOT

<< left shift (fill with zeroes)

>> right shift (fill with zeroes)