**INF-120 CHEAT SHEET**

STRING MANIPULATION

To find the length – use len(string)

To access the letter – use variable[index]-starting index is 0

LIST MANIPULATION

List=[]

To access the list elements – use list\_name[index] – starting index is 0

To find maximum – use max(list\_name)

To find minimum – use min(list\_name)

To find sum of all elements – use sum(list\_name)

To find the number of elements in list – use len(list\_name)

To add – use list\_name.append(element)

MODULES

Import module names (math, statistics, turtle, random)

For random- randrange, random.choice(list\_name)

Math – math.(function\_name) - fabs, sqrt, pow

STRING FORMATTING

Use f formatting f ”strings {variables}” put variables inside curly braces

DICTIONARY

To access the value – use dictionary\_name[key\_name]

Dictionary = {key: value}

IF STATMENTS

BOOLEAN

And – all conditions true

Or – any one condition true

NOT – if true returns false and if false returns true

Use ‘==’ instead of ‘=’ for comparing

! = means not equal to

Use % to find the remainder

Use // to find the quotient without the floating points

Tuple = () – immutable – cannot change

Functions

-Functions can take arguments and return values.

def say\_hello(name):

Print(f’Hello {name}’)

def say\_hi(name, greeting):

print(f”{greeting} {name}”)

def sum\_two\_numbers(number\_1, number\_2):

return number\_1 + number\_2

result = sum\_two\_numbers(7, 8)

print(result)

Local and Global scope

Code in the global scope cannot use any local variables.

However, a local scope can access global variables.

Code in a function’s local scope cannot use variables in any other local scope.

You can use the same name for different variables if they are in different scopes. That is, there can be a local variable named spam and a global variable also named spam.

Rules for local or global scope

If a variable is being used in the global scope (that is, outside all functions), then it is always a global variable.

If there is a global statement for that variable in a function, it is a global variable.

Otherwise, if the variable is used in an assignment statement in the function, it is a local variable.

But if the variable is not used in an assignment statement, it is a global variable.