Introduction to Programming: 1st lesson – Arithmetic & Variables

Printing:

print(“Hello, world!”)

Hello, world!

Arithmetic function:

print(1 + 2)

3

print(9 - 5)

4

print(((1 + 3) \* (9 - 2) / 2) \*\* 2)

196.0

Operators in arithmetics:

1} Addition (+)

2} Subraction (-)

3} Multiplication (\*)

4} Division (/)

5} Exponent (\*\*)

Comments:

# Multiply 3 by 2

print(3 \* 2)

6

Creating variables:

# Create a variable called test\_var and give it a value of 4+5

test\_var = 4 + 5

# Print the value of test\_var

print(test\_var)

9

Manipulating variables:

# Set the new value of a new variable to 3

my\_var = 3

# Print the value assigned to my\_var

print(my\_var)

# Change the value of variable to 100

my\_var = 100

# Print the new value assigned to my\_var

print(my\_var)

3

100

print(my\_var)

print(test\_var)

100

9

# Increase the value by 3

my\_var = my\_var + 3

# Print the value assigned to my\_var

print(my\_var)

103

Using multiple variables:

# Create variables

num\_years = 4

days\_per\_year = 365

hours\_per\_day = 24

mins\_per\_hour = 60

secs\_per\_min = 60

# Calculate number of seconds in four years

total\_secs = secs\_per\_min \* mins\_per\_hour \* hours\_per\_day \* days\_per\_year \* num\_years

print(total\_secs)

126144000

# Update to include leap years

days\_per\_year = 365.25

# Calculate number of seconds in four years

total\_secs = secs\_per\_min \* mins\_per\_hour \* hours\_per\_day \* days\_per\_year \* num\_years

print(total\_secs)

126230400.0