Assignment 1

January 16, 2020

1 Assignment 1 CSC 101

1.1 Problem 1

In the code cell below, enter a python command which will print out the string "My name is …". Replace the three dots with your own name.

[1]:
```
print()
```

```
My name is Hyoil Bae
```

1.2 Problem 2

The general rule in evaluating mathematical operations is that when operators are of the same order of precedence, evaluation proceeds from left to right. I want you to examine whether this is true for the case of exponentiation. Use the integers 2, 3, and 5 in the framework in the following paragraph.

In the code cell below, enter three assignment statements. The first one should create the variable no_parens. The second one should create the variable left_parens. The third one should create the variable right_parens. Then use three print() statements to show the values of these three variables.

Describe your conclusion in the markdown cell below the code cell.

[14]:
```
no_parens = 2**3**5
left_parens = (2**3)**5
right_parens = 2**(3**5)
print('the value of no_parens is :   ' , no_parens)
print('the value of left_parens is : ' , left_parens)
print('the value of right_parens is :' , right_parens)
```

```
the value of no_parens is :
14134776518227074636666380005943348126619871175004951664972849610340958208
the value of left_parens is :  32768
the value of right_parens is :
14134776518227074636666380005943348126619871175004951664972849610340958208
```

'no_parens' and 'right_parens' have the same value because the mathmatical order to calculate exponentiated values are going from right to left in Python3. Only 'left_parens' has the different value because it calculates from left to right.

1.3 Problem 3

Give the variable decimal the value 1.0 and the variable whole the value the value 2. Then put the sum of these two variables in the variable the_sum. Print the value of the_sum. Print the type of the_sum returned by the type() function. Do your work in the following code cell.

[15]:
```
decimal = 1.0
whole = 2
sum = decimal + whole
print(sum)
print(type(sum))
```

```
3.0
<class 'float'>
```

1.4 Problem 4

Give the variable first_name your first name and the variable last_name your last name. Create the variable normal_name by concatenating your names separated by a single blank space. Create the variable reversed_name by putting your last name first and your first name last. Separate your two names with a comma and a blank space. Print both versions. Do your work in the following code cell.

[8]:
```
first_name = 'Hyoil'
last_name = 'Bae'
normal_name = first_name + ' ' + last_name
reversed_name = last_name + ' ' + first_name
print(normal_name + ', ' + reversed_name)
```

```
Hyoil Bae, Bae Hyoil
```

[0]:
```
```