CO1102 Programming Fundamentals - Tutorial week 1

Objectives:

- To determine your current level of ability with programming and python
- To understand algorithm
- To understand variables, expression and operators in Python
- To get familiar with strings

Question 1:

Get into a group of 4-5 students. As a group, see how many different data types you can list that are used in python. Write each data type onto a sheet of paper and try to suggest:

- A valid value for this data type
- A possible operation that could be performed on this data type

Question 2:

Answer to the following question:

> S="World"
> S.lower()
> S == "world"

Is it True or False?

Question 3:

What is the output of following code fragment?

```
aString = "one"
aString = aString *3
print ( aString )
```

Output:

```
x = 4
x = "Sally"
print(x)
```

Output:

```
x = "Python is "
y = "awesome"
z =  x + y
print(z)
```

Output:

```
x = 5
y = "Python"
print(x + y)
```

Output:

```
b = "Hello, World!"
print(b[2:5])
```

Output:

```
a = "Hello, World!"
print(a.split(","))
```

Output:

```
a = "   Hello, World!     "
print(a.strip())
```
Output:

```
str = " Programming is fun"
```

```
print(str.count('m')
```

Output:

Question 4

Provide one example of an algorithm and explain why it is an algorithm. Make sure you refer each of the different components of an algorithm in your answer