**Rishabh Kant Jha’s assignment - 1**

1. In the below elements which of them are values or an expression? eg:- values can be integer or string and expressions will be mathematical operators.

\* **EXPRESSION**

'hello' **VALUE**

-87.8 **VALUE**

- **EXPRESSION**

/ **EXPRESSION**

* **EXPRESSION**

6 **VALUE**

1. What is the difference between string and variable?

**String :** can be at least 1 of any notation.

**Variable :** holds value of any particular type.

3. Describe three different data types.

Integer

String

Boolean

1. What is an expression made up of? What do all expressions do?

Expressions are mathematical operators, or anything which represent any value.

As long as they represent a value they are an expression.

They can be a combination of multiple different types of values as well.

1. This assignment statements, like spam = 10. What is the difference between an expression and a statement?

Expression :

>> d=4

>> d+16

>> 20

Assignment :

>> d = 4

>> print(d)

>>4

Expressions are executable but the Statements are not

6. After running the following code, what does the variable bacon contain?

>> bacon = 22

>>bacon + 1

>> 23

But the value of Bacon is : 22

Unless Bacon = Bacon + 1, doesn’t happen it’s value must remain the same.

7. What should the values of the following two terms be?

>> 'spam' + 'spamspam'

>> spamspamspam

>> 'spam' \* 3

>> spamspamspam

1. Why is eggs a valid variable name while 100 is invalid?

As per PEP8 convention the name shall not have numbers because you can’t assign a value to a number.

1. What three functions can be used to get the integer, floating-point number, or string version of a value?

V = “123.54”

V = int(V) #to convert into Integer

V # anyhow this is a string

V = float(V) #to convert into float

10. Why does this expression cause an error? How can you fix it?

'I have eaten ' + 99 + ' burritos.'

>>'I have eaten ' + **str(99)** + ' burritos.'