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.

\* = Expressions

'hello' = values

-87.8 = values

- = Expressions

/ = Expressions

* =Expressions

6 = values

2. What is the difference between string and variable?

A Variable is a store of information, and a String is a type of information you would store in a Variable. Example

X = “Newton”

So X is a variable and the value store in it is String

3. Describe three different data types.

Strings=Anything between “. ” becomes string . Example= “fjxkhz”,”12.34”

Integer= whole number . Example = 4587

Float =decimal number . Example= 34.85

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

Ans : An expression is a combination of operators and operands that is interpreted to produce some other value.

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

Ans : Expression is made up of values, containers, and mathematical operators (operands) and the statement is just like a command that a python interpreter executes like print.

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

bacon = 22

bacon + 1

Ans : 23

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

'spam' + ‘spamspam’ = ‘spamspamspam'

‘spam’\*3 = 'spamspamspam'

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

Ans : Because we can’t start giving variable an integer name. if we, we should begin with, a string-like alphabet name then integer. Example = eggs100 is valid

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

Ans : Int(), float(), str()

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

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

Ans : 99 is an integer it cannot be concatenated with strings, if we have to concatenate it we need to do typecasting.