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 = expression

- = value

/ = expression

* = expression

6 = value

2. What is the difference between string and variable?

- String is a data type in programming language, while variable is an object that we use to store the data type

3. Describe three different data types.

- String data type = Consist of letter, number or other data types but represent as text

- Boolen data type = Consist of True or False statement

- Integer data type = consist of whole number statement

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

- Expression is made up of identifier, literals and operator and all expressions do is to represent a value

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

- Based on the assignment statement above, expression is when we assign the value 10 into variable spam, while statement is when we want to obtain the value store in the variable spam by using print statement

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

bacon = 22

bacon + 1

- 22

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

'spam' + 'spamspam'

'spam' \* 3

- ‘spamspamspam’

- ‘spamspamspam’

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

- Because numbers cannot represent a variable name, this is due to 100 can be an integer data type

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

- int(), float(), str()

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

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

* Because different data type, 99 is an integer data type, while ‘I have eaten’ and ‘burritos’ are string data type