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

2. What is the difference between string and variable?

Ans: string is value which holds character information in default and it also holds number information if specified in syntax: ‘ ‘

Ex: ‘123’,’something’

Variable:

Variable is a term which defines the data assignment.

Ex : A=100 [A is varaiable].

3. Describe three different data types.

Integer 🡪numbers

Float 🡪 decimal values

Boolean🡪 True and false.

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

Expression is a combination of mathematical operators and values.

Expression will perform operations like A+B-5=?

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: 22

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: variable should not start with numbers.

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: because it can’t combine 2 strings with 1 number value.

Fix: number should be converted to string.