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 may be an alphabetical value/sentence enclosed in double/single quotes. It is a type of information.

Variable is a store of any information. Information like string is stored in a variable.

3. Describe three different data types.

Ans: - bool – This datatype has value either TRUE or FALSE.

Int – This takes only integer.

Str – This takes a string.

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

Ans: - An expression is made up of mathematical operators, values, variables. All expressions perform the operation and return a value.

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

Ans: - spam=10 🡪 This is a statement

10 is its expression.

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'

'spam' \* 3

Ans: - The values of both the above terms will be 'spamspamspam'

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

Ans: - Because a variable name cannot start with an integer.

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

Ans:- int(), float() and str()

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

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

Ans: - It causes error because 99 is an integer and the above expression can be only concatenated with a string. So, I can typecast 99 into a string as below and then it will not cause any error and will be concatenated.

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