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.

\* - It is an expression, mathematical multiplication operator

'hello' – It is a value, string

-87.8 – It is a value, Float

- - It is an expression, mathematical subtraction operator

/ - It is an expression, mathematical dividend operator

* - It is an expression, mathematical addition operator

6 - It is a value, integer

2. What is the difference between string and variable?

String can be a variable, variable cannot be a string. Variable is the thing where you can set value. String is a type of value that can be inserted into a variable

3. Describe three different data types.

Integer - It is used to assign a value of an integer and occupies 4 bits.

String - It is used to assign text to a value

Character – It is a single alphabet or group, but cannot be a continuous text, there can be no spaces.

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

Expressions are made up of mathematical operators, they are helpful in solving problems logically.

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

Expression uses operators, assignment statuses assign values.

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

bacon = 22

bacon + 1

It contains 22

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

'spam' + 'spamspam'

'spam' \* 3

spamspamspam would be the result for the above two terms

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

Variable cannot start with a digit.

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.'

Error is 99 is an integer and cannot be added to a string, so has to be typecasted