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' -value

-87.8 - Value

- expressions

/ - expressions

* - expressions

6 - value

2. What is the difference between string and variable?

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

3. Describe three different data types.

Integer, string, Boolean

Integer – numbers ex: 1,2

String – “hello”

Boolean – true or false

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

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?

“expression” is a combination of values and functions that are combined and interpreted by the compiler to create a new value, as opposed to a “statement” which is just a standalone unit of execution and doesn't return anything

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

bacon = 22

bacon + 1

bacon = bacon +1

so bacon is 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?

Variables cannot begin with number

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

The **int() , float() , and str( )** functions will evaluate to the integer, floating-point number, and string versions of the value passed to them.

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

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

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

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