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?

Variables are used to store any values of different datatype where as string is the values in double quotes.

3. Describe three different data types.

Int, Float & string

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

Expressions are made up of mathematical symbols and real numbers/variables. Expressions are combinations of math operators and terms/variables.

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

An expression evaluates to a value.

Statement is any line/lines of code/ instructions that python interpreter can execute.

Every expression cant be statement and every statement can be expression.

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

bacon = 22

bacon + 1

bacon has 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?

Variables cant begin with numbers.

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

 int() , float() , and str( ) functions

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

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

Tring to add string with int.

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