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?

String is a datatype.

A variable can hold value of any datatype in it

3. Describe three different data types.

Str() String - defined by single quote or double quote, can have any alphanumeric and symbols

Int() integer – will have natural whole numbers

Float() – will have decimal numbers

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

Expression is madeup of instructions that has to be executed  
all expressions do some kind of process that changes the data

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

The above statement uses the expression “=” to assign the value 10 to the variable spam

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

bacon = 22

bacon + 1

23

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

'spam' + 'spamspam'

'spam' \* 3

spamspamspam

spamspamspam

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

We cannot use only numbers as a variable name it whould have some alphabetics or symbols

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

Int(), str(), float()

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

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

We are trying to do string concatenation sing 99 is not string we are getting error

Sol1 :

'I have eaten ' + ‘99’ + ' burritos.'

f'I have eaten ' + {99} + ' burritos.'