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 is a data type and it can be a value, where as variable is holding the values(it may be integer or string)

3. Describe three different data types.

Ans- i). Numeric

ii).String

iii) .Boolean

iv).List, set, tuple, dictionary

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

Ans- Expression is a combination of operator and operand, that is interpreted to produce new value.

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

Ans- Statement is an instruction to interpreter to perform some task. Spam=10 is a statement .

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?

Ans- 'spam' + 'spamspam'- ‘spamspamspam’

'spam' \* 3 – ‘spamspamspam’

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

Ans- As per naming convention an integer can not be variable name where eggs can be.

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

Ans- int()

Float()

Str()

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

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

Ans- it will show type error as 99 is integer and we are trying to add string with integer.

We can fix like below:

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