1. What are the differences between operators and values in the following?

\*

'hello'

-87.8

-

/

+

6

Solution:

Operators: \*, - , / +

Values: 'hello', -87.8, 6

2. What is the difference between string and variable?

spam

'spam'

Solution:

Spam is variable

‘spam’ is value

3. Describe three different data forms.

Number: 1,2,1.2

Boolean: True, False

String: “test”

4. What makes up an expression? What are the functions of all expressions?

Expression can be made by variables, operators and values, expressions can be use to evaluate the operations.

5. In this chapter, assignment statements such as spam = 10 were added. What's the difference between a declaration and an expression?

As like c and java python have no way to declare a variable, python variable create in memory when assign value to variable, ex a =10, variable a as integer type

Expression can perform operation on variable and values with help on operators.

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

bacon = 22

bacon + 1

in jupyter it 23

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

'spam' + 'spamspam'

'spam' \* 3

spamspamspam

8. Why is it that eggs is a true variable name but 100 is not?

Variable should be start with charter not by number as 100 start with 1.

9. Which of the following three functions may be used to convert a value to an integer, a floating-point number, or a string?

Int(),float(),str()

10. What is the error caused by this expression? What would you do about it?

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

Error: can only concatenate str (not "int") to str

This because 99 integer so if we need to concat then first cast as string

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