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

\* = operator

'hello' = Values

-87.8 = Float (Values)

- = operator

/ = operator

+ = operator

6 = values

2. What is the difference between string and variable?

spam = This is a variable. Variable is a reserved memory location to store values.

'spam' = This is a string which will be in single quote, double quote or triple quote.

We can write the code as mentioned below.

spam = 'spam' #here ‘spam’ is a string.

3. Describe three different data forms.

* qualitative
* quantitative
* discrete
* continuous

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

A combination of values, variables, operators and calls to functions is called expression.

Ex : 1+1 , 2\*2, a+b-2,

An expression evaluates to a single value. A statement does not.

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

Expression evaluate to a single value. But statement doesn’t.

Spam = 10

print ( spam) : (# this is called declaration)

10 (#This is called expression)

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

bacon = 22

bacon + 1

23

it needs an assignment statement: bacon = bacon+1

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

'spam' + 'spamspam' : 'spamspamspam'

'spam' \* 3 : 'spamspamspam'

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

Variable names cannot be begin with numerical number.

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

Solve it : 'I have eaten ' + '99' + ' burritos.'

'I have eaten 99 burritos.'