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

\*

'hello'

-87.8

-

/

+

6

Ans: The Operators are used to do operations between values

The operators are like +, -, /, \*

The Values are ‘hello’, -87.8, 6.

2. What is the difference between string and variable?

spam

'spam'

Ans: Spam is a variable which is used to store information that we required to use in our programming.

Where ‘spam’ is a string this is one of type we store in the variable.

3. Describe three different data forms.

Ans:

1. Qualitative and Quantitative.

2. Continuous and Discrete Data.

3. Primary and Secondary Data.

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

Ans: Expression: An Expression is an combination of operators, constants, and variables. An Expression may consist of one or more operands, and zero or more to produce a value.

The function of an expression is to evaluate and determine its value.

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

Ans: if we take spam = 10

The declaration is the “spam” and the expression is the making spam equals to 10.

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

bacon = 22

bacon + 1

Ans:

The bacon value is still 22 because we doing operation but not an assignment.

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

'spam' + 'spamspam'

'spam' \* 3

Ans:

For both it is same value that is “spamspamspam”

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

Ans: Beacause variables cannot be a number and eggs is an alphabetic so it can be variable.

There are some rules to make an 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?

Ans:

Int(),float(),str()

Int() for converting into integer, float() for converting into floating point number, str() to convert into string.

Int(10) => 10, float(10) => 10.0, str(10) => “10”

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

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

Ans:

We are trying to concatenate string and a number which is not possible.