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

\*

'hello'

-87.8

-

/

+

6

Ans. Operators are :-

\* (for multiplication)

- (for subtraction)

/ (for division)

+ (for addition)

Values are:-

‘Hello’ – it’s string type value.

-87.8 -it’s a float type value

6 – it is a integer type value

2. What is the difference between string and variable?

spam

'spam'

Ans. String is datatype whose value gets define into variable.

3. Describe three different data forms.

Ans. Integer, Float, complex number, string, Boolean

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

Ans. Expression is a combination of variables, operations and values that yields a result value.

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

Ans. A Function Declaration (or a Function Statement) defines a function with the specified parameters without requiring a variable assignment. They exist on their own, i.e, they are standalone constructs and cannot be nested within a non-function block. A function is declared using the *function* keyword.

A Function Expression works just like a function declaration or a function statement, the only difference is that a function name is NOT started in a function expression, that is, *anonymous functions* are created in function expressions. The function expressions run as soon as they are defined.

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?

'spam' + 'spamspam'

'spam' \* 3

Ans

'spamspamspam' & 'spamspamspam'

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

Ans. A variable cannot be an integer because it may create problems in further declaration and calculations. eg - int a = 2; int 2 = 5; int c = 2 \* a; what is the value of c? is 4, or is 10!

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 to convert values in to integer type

Float to convert values into float type

Str to convert values into string type

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

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

Ans it will not concatenate string with numerical (integer) value to concatenate the expression we need to convert 99 into string.

'I have eaten ' + ‘99’ + ' burritos.'