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

\*

'hello'

-87.8

-

/

+

6

**● *Operators is nothing but a symbol that helps the compiler to perform specific mathematical, relational or logical operations on the set of given values and produce some final results.***

***\****

***-***

***/***

***+***

***These are the operators.***

***● Values are some assigned meaning to a variable.***

***It is interpreted according to some data type and it could be of different type.***

***So here in the above given list,***

***'hello'***

***-87.8***

***6 these are the values***

2. What is the difference between string and variable?

spam

'spam'

***● A variable is a place where an Information is stored.***

***It's a name that can refer to any value***

***And it can't begin with a number***

***spam is a variable***

***● String is a type of information we would store in a variable.***

***It's a value representing text***

***String always start and end with quotes***

***'spam' is a string***

3. Describe three different data forms.

***●integer: these types can be signed or unsigned values***

***Ex:32767, -32768***

***● floating point: these types allows decimal values***

***Ex:97.665, 67.000***

***●string: is a sequence of characters, either as literal constants or some kind of variables.***

***Ex: 'A' ,"hello moni"***

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

***An Expression*** ***is a combination of operands and operators.***

***All the expressions get evaluated or reduced to some result value/output.***

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

● ***An expression gets evaluated to some output value.***

***● Declaration doesn't get evaluated***

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

bacon = 22

bacon + 1

***● The bacon is assigned a value 22 and it contains the same after the code is made to run.***

***● bacon+1 doesn't make any difference because it doesn't reassign the value in bacon unless it has an assignment statement something like bacon=bacon + 1***

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

'spam' + 'spamspam'

'spam' \* 3

***Both the expressions evaluate to 'spamspamspam'***

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

***Because Variable names can't begin with a 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() these functions will evaluate/convert to integer, floating-point number, and string of the values we provide.***

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

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

***● The expression causes 99 as an error because it's an integer.***

***● Only strings can be concatenated to other strings with the + operator.***

***● So the solution to get it right would be,***

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