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

\* is operator

'hello' is string value

-87.8 is floating number

- is operator

/ is operator

+ is operator

6 is integer value

2. What is the difference between string and variable?

Spam is a valiable used to make a declaration

'spam' – is a string can be used as value

3. Describe three different data forms.

Integers – Round numbers

String – Characters

Float – Decimal numbers

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

Combination of operator & operands makes up an expressions. Function of expressions is to represent Arithmetic, Relation, Logical and Compound expression.

Example:

a = 1 b = 2

a + b = 3

here a+b is an expression

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

Declaration: We have declared a variable called spam. spam = 10 is a declaration.

expression: Expression is combination of operands & operators to declare a value.

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

bacon = 22

bacon + 1

Answer = 23

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

'spam' + 'spamspam' =

'spam' \* 3

Answer: 'spamspamspam' for both terms

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

Variables always should start with characters not with integers. Here 100 is an Integer.

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 - To convert value to an Integer

float - To convert value into decimal

str - To convert value into string

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

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

In the above case, 99 is not a string hence it caused the error.

The correct one should be: 'I have eaten' + ' 99 ' + 'burritos'

Answer: 'I have eaten 99 burritos'