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

\* -- Multiplication operator

'hello' – String value

-87.8 – Floating value

- subtraction operator

/ Division operator

+ Addition operator also it acts as concatenation operator

6 -- integer value

2. What is the difference between string and variable?

Spam – Variable is a place holder for string a value. It is name of the storage location of the value.

'spam' – String is data type in python. Which deals with characters. String class in python has many inbuilt methods to perform various string /text related operations.

3. Describe three different data forms. –

Int – Integer data type is to store integer values

Float – Float data type is to sore float data type

Bool – bool is to store Boolean values (True or False)

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

An expression is a mix of variables and values and operation. And this expression will give a result: Example:

A,B= 10,20

Print(A+B)

This is a expression.

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

Assignment statement is just assigning a value to a variable.

Declaration is declaring a variable and it can also have assignment

Expression involves operation of the variables also like 8+6

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

bacon = 22

bacon + 1

bacon will contain only 22, because we are not assigning back the added value to bacon again.

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 name can not be started with a numeric value. We will get syntax error.

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.'

We will get error: can only concatenate str (not "int") to str

To correct it we should convert the integer value to string

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