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

\*

'hello'

-87.8

-

/

+

6

**Ans**-Values are Data on whom we can perform operations for ex. Here from the above list ‘Hello’, -87.8, 6 are the different values of Datatypes String, Float and integer respectively.

Whereas Operators are used to perform operations on values for ex from above list \* is the multiplication operator used for multiplication.

* Is Subtraction operator used for performing Subtraction.

/ is the Division operator to use for performing Division.

+ is the addition operator to use for performing addition.

2. What is the difference between string and variable?

spam

'spam'

**Ans-** AString is a collection of characters. For defining a string, it must be written into either “ ” or ‘ ’. Whereas a variable is something where we can store our data.

For example in above given condition ‘spam’ is a String whereas whereas in spam variable, we can store any dat.

3. Describe three different data forms.

**Ans-** I hope from here from “Data forms”, you mean to say that different forms or types of data. which are as follows-

Int – represents Integer Data type (ex-2)

Str- represents string Data type (ex-“Hello”)

Float- represents float Data type (ex-7.8)

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

**Ans-**An expression is set of values and operators. The function of any expression is to give some end result.

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

**Ans -** Here declarations mean we’re assigning some value to some variable whereas an expression is the set of values and operation which gives us some end result.

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

bacon = 22

bacon + 1

**Ans-** after running this code the value of variable bacon will increase by 1 i.e. bacon=23

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

'spam' + 'spamspam'

'spam' \* 3

**Ans-** Both will give us the same result that would be 'spamspamspam' .

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

**Ans-** A variable name can’t start from any number or some special character that’s why eggs is a true variable and 100 is not.

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-** Function int() is used to covert into Integer

Function float() is used to covert into float

Function str() is used to covert into string

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

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

**Ans-** This code will give us a type error as we can not concatenate str with int. for getting the result we can use following code.

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