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

\*

'hello'

-87.8

-

/

+

6

Ans. The operators are +, -, \*, and /. The values are 'hello', -87.8, and 6.

2. What is the difference between string and variable?

spam

'spam'

Ans. A string is a datatype which is a collection of alphanumeric characters and represented in quotes whereas a variable is a named entity location used to store values of different datatypes.

e.g., spam= ’spam’

3. Describe three different data forms.

Ans. The three different data forms are integer, float and string.

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

Ans . An expression consists of an operator as well as the operands. The function of all expressions is to evaluate to a single value.

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

Ans. Declaration is when we want to assign a datatype to a variable, meanwhile an expression is used when we want to compare two operands, or check some conditions for a single operand

Eg, Declaration:- spam=10

Expression :- spam!=10

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

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

Ans. The reason is that **Variable names** cannot 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?

Ans. int(), float(), and str() functions are used to convert a value to an integer, a floating-point number, or a string.

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

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

Ans. Since 99 is an integer we face an error while trying to concatenate it with the strings. To avoid this error we can convert the numeric value into a string.

'I have eaten ' + ‘99’ + ' burritos.' OR 'I have eaten ' + str(99)+ ' burritos.'