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

\* is an operator

'hello' is a value

-87.8 is a value

- is an operator

/ is an operator

+ is an operator

6 is a value

2. What is the difference between string and variable?

Spam is a variable

'spam' is a string

3. Describe three different data forms.

Sol 1. Integer

2. str

3. boolean

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

Sol . combining some variables and operators sum up to an expression. Expressions are made to change the values accordingly to the situation.

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

Sol: so declaration is like I am giving a value to a variable and it is independent of any variable like spam = 10 or temp = 300; but assigning an expression to a variable is not independent; like a = (b+c)/2 , so here a is dependent on b and c.

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

bacon = 22

bacon + 1

sol: 22

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

Sol:'spam' + 'spamspam' = 'spam' \* 3 = ‘spamspamspam’

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

Sol : as 100 is starting from a number so it is not a variable , it is a value.

9. Which of the following three functions may be used to convert a value to an integer, a floating-point number, or a string?

Sol: int(value)

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

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

Sol: you can’t add string and integer together .

We can debug by making 99 to ‘99’.