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

\* **operator**

'hello' **value**

-87.8 **value**

- **operator**

/ **operator**

+ **operator**

6 **value**

**2. What is the difference between string and variable?**

spam - variable

'spam' – string as it is enclosed in quotes

**3. Describe three different data forms.**

Int, float, strings

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

Expression is a combination of operands and operators. All expression reduces 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?

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

bacon = 22

bacon + 1

The value of bacon will be still 22 as it is not assigned back to it

**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 cannot start 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?**

int(), float(), str() will evaluate to integer, float, string respectively

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

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

Since 99 is an integer and integer cannot concatenate with other strings hence would throw an error.

We can write it as : 'I have eaten ' + str(99) + ' burritos.'