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

\* - it is an operator

'hello' – it is a string value

-87.8 – it is a float value

- it is an operator

/ it is an operator

+ it is an operator

6 it is an int value

2. What is the difference between string and variable?

Spam – it is a variable used for holding values

'spam' – it is a string value that can be stored in a variable or printed directly

3. Describe three different data forms.

Integers, string, float. Python also supports complex and Boolean

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

An expression is a combination of variables, operators, values, etc.

All expressions can be evaluated and produces a single result.

**Example**:

Assignment expression

num1 = 5

Conditional expression

x if x>y else y

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

An expression can be evaluated and reduced to a single result

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' **Ans**: spamspamspam

'spam' \* 3 **Ans**: spamspamspam

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

A 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() converts to integer

float() converts to floating point number

str() converts to a string

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

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

Error: can only concatenate str (not "int") to str

Use

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