**1.** In the below elements which of them are values or an expression? eg:- values can be integer or string and expressions will be mathematical operators.

\* is an expression

'hello' is a value

-87.8 is a value

- is an expression

/ is an expression

* is an expression

6 is a value

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

**Ans.** A string is a data type, consisting of characters within quotes, whereas, a variable can store any data type, be it a string or a number

**3.** Describe three different data types.

**Ans.**

* int – Integer. It contains positive or negative whole numbers (without decimal)
* float – Contains real numbers, i.e. with or without decimal
* string – Collection of one or more characters

**4.** What is an expression made up of? What do all expressions do?

**Ans.** An expression is a combination of operators and operands. Expressions on being executed produce some other value

**5.** This assignment statements, like spam = 10. What is the difference between an expression and a statement?

**Ans.** Expressions produce a value, and that value will be passed into the function. Statements don't produce a value, and so they can't be used as function arguments.

**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 eggs a valid variable name while 100 is invalid?

**Ans.** A variable name must start with a letter or the underscore character. A variable name cannot start with a number. Thus, eggs is a valid variable name while 100 is invalid.

**9.** What three functions can be used to get the integer, floating-point number, or string version of a value?

**Ans.** The int() , float() , and str( ) functions can be used to get the integer, floating-point number, or string version of a value passed to them.

**10.** Why does this expression cause an error? How can you fix it?

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

**Ans.** An integer cannot be concatenated with a string.

Correct format will be 'I have eaten ' + '99' + ' burritos.'