**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.**

\* - Expressions

'hello' - Value

-87.8 - Value

- - Expressions

/ - Expressions

* - Expressions

6 - Value

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

String is a datatype defined to a variable which is used to store text data. Variable is a name associated with a value.

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

**String** – String is a collection of characters, text enclosed in a single quote

**Int** – Integers can hold zero, negative and positive whole numbers

**Float** – Float represents floating point numbers. It can hold real numbers with decimal points.

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

Expression made up of the operators and operands. When it combined together will produce a value.

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

Expression always produces a value. Statement sometimes cannot produce any values

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

**bacon = 22**

**bacon + 1**

Bacon value will be 22.

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

**'spam' + 'spamspam'**

spamspamspam

**'spam' \* 3**

'spamspamspam'

**8. Why is eggs a valid variable name while 100 is invalid?**

As per the variable standards, variable can start with alphabet, so eggs is a valid variable name whereas 100 is invalid as it started with number and it cannot assign a value to literal.

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

Int()

Float()

Str()

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

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

We cannot concatenate a number with string. To concatenate, we need to do like below

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