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' : values

-87.8 : values

- : expressions

/ : expressions

* : expressions

6 : expressions

2. What is the difference between string and variable?

A variable is used to store data. Data can be integer, string or special character.

A String can be stored in a variable and can be written using ‘ ‘ or “”.

3. Describe three different data types.

Numeric: It can be used to represent int, float, complex values

Boolean: : It can be used to represent true and false values

Sequence: : It can be used to represent list, tuple, range

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

An expression is a combination of operator and operands which is used to produce some value.

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

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

bacon = 22

bacon + 1

bacon =23

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?

100 is invalid variable as it is numeric and variables should start with a/A-z/Z or underscore.

Numeric values itself signify a specific value hence cant store any data inside them while use of variable is to hold a data.

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.'

Strings cannot be concatenated with integer values

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