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.

\*

'hello'

-87.8

-

/

6

**Answer : values : ‘hello’, -87.8, 6 expressions: \*,-,/,+**

2. What is the difference between string and variable?

**Answer : string is a type of data and variable is used to store any type of data**

3. Describe three different data types.

**Answer : int,float,string,Boolean, complex,**

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

**Answer : expression made up of variables and type of operations(e.g. -,+,/,\* operators) And perform some operations.**

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

**Answer : statement may or may not perform certain operations or my checking particular conditions where as expression will perform some operation and may return a value.**

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

bacon = 22

bacon + 1

**Answer : 22 only, to update the value of bacon , it need to assign the updated value.**

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

'spam' + 'spamspam' **Answer : spamspamspam**

'spam' \* 3 **Answer : spamspamspam**

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

**Answer : because variable name cannot be start with number or special characters**

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

**Answer : int(),float(),str()**

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

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

**Answer : because string concatenation in python will not internally convert int to str so need to use str() to work it.**