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.

\* **Ans:** (expression)

'hello' **Ans:** (value)

-87.8 **Ans:** (value)

- **Ans:** (expression)

/ **Ans:** (expression)

* **Ans:** (expression)

6 **Ans:** (value)

2. What is the difference between string and variable?

**Ans:** string is a data type, however variable is a container to hold data of any type.

3. Describe three different data types.

**Ans:** string, integer, list.

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

**Ans:** expression is made up using combination of mathematical operators. Expressions basically used to perform operations over data.

e.g. 4\*5 is an expression, which evaluated to 20.

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

**Ans:** assignment statement basically assigns a value to variable, however expressions evaluates operations between data/variables.

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:** variable name should always start from an alphabet or \_.

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

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

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

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

**Ans:** string and integer can’t be concatenate using + operator. Above statement can be corrected using 2 ways below:

'I have eaten ' + ‘99’ + ' burritos.'

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