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.

\* **expression**

'hello' **values**

-87.8 **values**

- **expression**

/ **expression**

* **expression**

6 **values**

2. What is the difference between string and variable?

**Ans: String is basically a sequence of characters closed in quotes. Variables are used to claim a memory and they can not be started with a number.**

3. Describe three different data types.

**Ans: Numeric type: int, float, and complex**

**Sequence type: str**

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

**Ans: Expression performs simple mathematical operations e.g a+b,a-b,a\*b etc.**

**Expressions are made up of special characters.**

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

Ans: **spam = 10, it is a statement as it defines the value to ‘spam’, also here ‘=’ is an expression.**

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

bacon = 22

bacon + 1 **Ans: 23**

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

'spam' + 'spamspam'

'spam' \* 3

**Ans: both have same result as spamspamspam**

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

**Ans: a variable cannot start with number.**

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

**Ans: int, float and str**

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

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

**Ans: here 99 is int type data and the others are str type data so to add them we have to convert int to str**

**‘I have eaten ‘ + str(99) + ‘burritos’**