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' **-value**

-87.8 **-value**

- **-Expression**

/ **-Expression**

* **-Expression**

6 **-value**

2. What is the difference between string and variable?

**Ans: A variable stores values and create memory location whereas a string is derived data type and are always written in quotes.**

3. Describe three different data types.

**Ans: Int is used for integers. Strings for characters. Float for decimals.**

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

**Ans: Expression is combination of operations, variables which results some value. All expressions gives output in terms of some values.**

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

**Ans: Spam = 10 is a statement which commands an action. While expression results some values interms of numbers or characters.**

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**

**spamspamspam**

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

**Ans: A variable can be a character, word(expect keywords), underscore but cannot start with a number.**

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: Error is due to change of datatypes. 99 is integer and should be converted into string.**