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

**\* (expression)**

**'hello' (value)**

**-87.8 (value)**

**- (expression)**

**/ (expression)**

**+ (expression)**

**6 (value)**

2. What is the difference between string and variable?

**String: string is a data type, which contain alphabets, numerics,special characters,an or mathematical operators. string will be represented in side a single quotes (' ') or double quotes (" ")**

**variable: Is a memory space, which stores some data.variable will be represented with alphabets or combination os alphabets and numbers.**

3. Describe three different data types.

**Integers: Integer data type has natural numbers without any decimal places.**

**Eg: 1,2,3,-1,-2,0**

**Floating data type: Floating data type has the numbers with decimal places in it.**

**Eg: -1.0,0.5, 2.5**

**String: string is a data type, which contain alphabets, numerics,special characters,an or mathematical operators. string will be represented in side a single quotes (' ') or double quotes (" ")**

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

**Expressions are mathematical operators, which will be used to manuplate the data based on requirements.**

**Eg for expressions are , +,-,\*,/,//.**

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

**Epression is a mamthematical operator, which will be used to maniplate the data**

**statement is a string data type, which convey some information**

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

bacon = 22

bacon + 1

**bacon contains 22.**

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

'spam' + 'spamspam'

'spam' \* 3

**'spamspamspam'**

**'spamspamspam'**

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

**variable names can be alphabets or combination of alphabets and numeric.**

**But variavle name can't be start with a numeric value. Python program not accept it as a variable.**

**so eggs is a valid variable name but 100 is not.**

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.'

**99 is an integer data type and remain two are string data type. so intger can't be added to a string .**

**to make it correct, 99 should be converted to a string data type by keeping 99 in single or double quote. i.e. '99'**

**can be corrected as**

**'I have eaten' +'99'+'burritos'**