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.

\* --- **multiplication operator or it can be used to pass a variable in a function**

'hello' **--- String**

-87.8 **--- value**

-  **---- Mathematical operator**

/ **---- Division Operator (Mathematical)**

* **--- Mathematical operator**

6 **--- Integer or a value**

2. What is the difference between string and variable?

**A variable is a container that hold some value which is changeable. It always begin with a character.**

#### String --- it is a set of characters and a data type

3. Describe three different data types.

Primitive

Non Primitive

User Defined data Types

Some are:: str, int, float, double, char, varchar .

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

**An expression is a composition of various operators and operands that result some value.**

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

**An expression returns a result but a statement is just a standalone execution of instructions**.

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

bacon = 22

bacon + 1

**=== 23**

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

'spam' + 'spamspam' == **'spamspamspam'**

'spam' \* 3 **== 'spamspamspam'**

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

**Variables always begins with a character not number**.

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.'

Because it is a type error, no operations can be performed on two different datatypes in concatenation. Data types should be same.

**This error can be resolved by converting the integer value into string::**

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