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.

Question = Answer

\* = Mathematical Operator

'hello' = String

-87.8 = Integer

- = Mathematical Operator

/ = Mathematical Operator

* = Mathematical Operator

6 = Integer

2. What is the difference between string and variable?

ANS = Variable = Variables are symbols that you can use to store data in a program.

String = String is a sequence of one or more characters that can be either a constant or variable .

3. Describe three different data types

ANS = .

* **Numeric** -  Numeric data type represent the data which has numeric value. Numeric value can be integer, floating number or even complex numbers
* **Boolean** - Data type with one of the two built-in values , True or False .
* **String** - String is a collection of one or more characters put in a single quote, double-quote or triple quote.

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

ANS = An expression is a construct made up of variables, operators, and method invocations, which are constructed according to the syntax of the language, that evaluates to a single value.In any programming language, an expression is evaluated as per the precedence of its operators.

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

ANS = Expression is a combination of values and functions that are combined and interpreted by the compiler to create a new value, as opposed to a Statement which is just a standalone unit of execution and doesn't return anything.

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 = Variable name cannot begin with a number.

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

ANS = For Integer = int()

For floating point number = float()

For String = str()

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

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

ANS = Error is caused because we can only concatenate str to str not str to int .

Can be solved if we write it in this way = 'I have eaten ' + ' burritos.'