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.

**Ans**:

\* - Expressions

'hello' - Values

-87.8 - Values

- - Expressions

/ - Expressions

6 - Values

2. What is the difference between string and variable?

**Ans:**

**String** will be defined in single or Double Quotes(" ",' '), anythig under these quotes called strings.

**Variables** are like empty things in that we can store/assign data/value.

3. Describe three different data types.

**Ans**:

1. Integers : are purly numbers
2. Floating point numbers : Are numbers with decimal points
3. Strings : these are with single or double quotes

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

**Ans**:

* Expressions made of of Values and Operators
* Expression always gives single output(value) at end

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

**Ans**:

**Expression** is a combination of variables,operations and values that yields a result value.

**Statement** represents an action or commands, A statments does something.

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?

**Ans**:

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

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

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

**Ans :** Variables names can not begin with numbers.

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**: 99 is integer type and rest two are strings, so **concatenation** is not possible b/w str and int type.

**Solution**: So keeping 99 under single or duble quote can fix it(Ex: '99',"99")