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' – String**

**-87.8 – Integer**

**- - Expression**

**/ - Expression**

* **- Expression**

**6 – integer**

2. What is the difference between string and variable?

**> String is a word which we are putting in our variable**

**A(Variable) = “Jimil”(String)**

3. Describe three different data types.

**Integer - Number (1,2,3,4……..n)**

**Float – Floating Values (1,1.1,1.2……99.65…..n)**

**String - Characters**

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

**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. ... As you can see from the other expressions, an expression can return other types of values as well, such as boolean or String .**

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

**Expression is made up of values, containers, and mathematical operators (operands) and the statement is just like a command that a python interpreter executes like print.**

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?

**Variable name is always start from character**

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

**Str(),int(),float()**

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

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

**>because 99 is an integer it cannot be concatenated with strings, if we have to concatenate it we need to do typecasting**.