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'🡪 **value**

-87.8🡪 **value**

- 🡪 **expression**

/ 🡪 **expression**

* 🡪 **expression**

6 🡪 **value**

2. What is the difference between string and variable?

**String is the value that can be assigned to a variable.**

**Variables are used to store some values in them so that it can be referenced in different programs.**

3. Describe three different data types.

a. **String 🡪 contains alphanumeric letters.**

**b. Integer 🡪 Mathematical integer values**

**c. Float 🡪 Decimal values**

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

**Expressions are made up of any mathematical operations. Expressions are there to solve any mathematical problem.**

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

**Expression evaluates to a value whereas statement represents an action or command to do something.**

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 cannot start with numeric value**

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.'

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