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 - \* is an expression

'hello' Is value

-87.8 Is value

- Is an expression

/ is an expression

* Is an expression

6 is value

2. What is the difference between string and variable?

Ans - A string is a type of data and a variable is a place or location in which we store data types.

3. Describe three different data types.

Ans - String, Integer, Boolean

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

Ans – An expression is combination of value, variables and operators. Expression produces result value after the operation on the variables.

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

Ans - An expression returns or produce a value or result after it is executed and a statement is use to create variables or displaying values.

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

bacon = 22

bacon + 1

Ans – bacon = 22

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

'spam' + 'spamspam'

Ans - spamspamspam

'spam' \* 3

Ans - spamspamspam

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

Ans – Variable name can begin with alphabet but it cannot start with a number.

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

Ans – int() for integer, float() for floating-point number and str() for string.

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

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

Ans – The words before and after the plus signs in the above expression have single quotes, so they are considered strings. In addition, 99 is an integer value, and you cannot add an integer to a string.