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.

\* Multiplication

'hello' - string

-87.8 - boolean

- subtraction

/ division

* addition

6 integer

2. What is the difference between string and variable?

Ans- Variables are symbols that can be use to store data in a program and Strings are data, that can be use to fill up a variable.

3. Describe three different data types.

Ans- Integers, floating-point numbers, and strings.

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.

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

Ans- An expression evaluates to a single value. A statement does not.

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

bacon =22

bacon+1

Ans- The bacon variable is set to 22. The bacon + 1 expression does not reassign the value in bacon

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 names 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- int(), float(), and str()

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

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

Ans- The expression causes an error because 99 is an integer, and only strings can be concatenated to other strings with the + operator. The correct way is I have eaten ' + str(99) + ' burritos.'.