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

+ Expression

6 Integer

2. What is the difference between string and variable?

- Variable is a name of memory location ,used to store the values but string is data type which actually is a collection of characters.

3. Describe three different data types.

Numeric.

Sequence Type.

Boolean.

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

An expression is a combination of operators and operands that is interpreted to produce some other value. It is used to perform mathematical or logical operation .

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

An expression usually refers to a piece of code that can be evaluated to a value, and is composed of variables, operators, function calls, and literals. In most programming languages, common examples of expressions are method calls and mathematical operations. Conversely, a statement refers to a piece of code that executes a specific instruction or tells the computer to complete a task. A statement can take the form of assignments, control statements, import statements, loop statements, jump statements, or method calls.

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

bacon = 22

bacon + 1

22

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?

Because we cant use numbers as variable name because it is already considered as integers

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

By type casting

Int(value), float(value), str(value)

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

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

Because we cant add string to integers