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.

\* = expressions

'hello' = values

-87.8 = values

- = expressions

/ = expressions

* = expressions

6 = values

2. What is the difference between string and variable?

String = A string is one of many of values. strings is a data type for a sequence of charcters

variable = a variable is something that can hold a values. variable is a data type

3. Describe three different data types.

Integer = It is the most common numeric data type used to store no without a fractional components(-707 , 0 , 707)

character = It is used to store a single letter , digit , punctuation mark , symbol , or blank space

boolean = It represent the values true and false . a boolean values is values is also 0(false) and 1(true)

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

An expression is a combination of values and operators all expression evaluate (is reduce) to a single value

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

An expression evaluates to a single values . 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 a set to 20 the bacon + 1 expression does not assign the value in bacon (that would need an assignment)

statement : bacon = bacon + 1

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

'spam' + 'spamspam'

'spam' \* 3

ans = both expression evalutes to the string "spamspamspam"

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

ans = bcz variable name cnt 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()

str()

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

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

Ans = 99 is an integer and only string can be concatenated to string with the + operator correct 'I have eaten ' +str( 99) + ' burritos.'