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?

A Variable is a container of information, and a String is a type of information we store in a Variable.

3. Describe three different data types.

Integer Whole numbers 3,5,7

Float (floating point) Number with a decimal point 5.5, 6.5 ,7.35

Boolean Binary logical values True ,False

1. 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. In any programming language, an expression is evaluated as per the precedence of its operators.

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

Expressions are representations of value. They are different from statement in the fact that statements do something while expressions are representation of value. For example any string is also an expressions since it represents the value of the string as well.

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

bacon = 22

bacon + 1

Output= 23

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

'spam' + 'spamspam'

'spam' \* 3

output:'spamspamspam'

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

variable names cannot begin with a number

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

Integer **int()**

Float **float()**

String **str( )**

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

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

This error occurs when you try adding (concatenating) an integer to a string

Fixing of code: "I have eaten " + str(99) + " burritos."