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 = \*

Value = 'hello'

Value = -87.8

Expression = -

Expression = /

Value = 6

2. What is the difference between string and variable?

Ans. A variable is basically the name of the location in the primary memory of your computer. This can be chosen by you. A variable can store everything from strings to numbers.

A string is the values inside the quotes assigned to a string.

A variable can hold a string, but a string can't hold a variable

3. Describe three different data types.

Ans. Sequence type

Numeric

Boolean

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

Ans. An expression is made up of variables, operators, and method invocations, which are constructed according to the syntax of the language, that evaluates to a single value. All expression indicates the value and definition of the value holding inside it .

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

Ans. Statements represent an action or command e.g. print statements, assignment statements. Expression is a combination of variables, operations and values that yields a result value.

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

bacon = 22

bacon + 1

Ans. 23

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

'spam' + 'spamspam'

'spam' \* 3

Ans. ‘spamspamspam’

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

Ans. Because variable name 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. nt() , float() , and str( )

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

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

Ans. Because it can only concatenate str (not "int") to str.