1. 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.

\*

'hello'

-87.8

-

/

6

Ans : Values are 6,-87.8 and ‘hello’

Expressions : \* - /

2. What is the difference between string and variable?

Ans : A Variable is a container to store information. That can be of any datatype - Integer, Float, Double, String etc…

String is a datatype that you would store in a variable. A String is usually words, enclosed with ""

3. Describe three different data types.

Ans : int, float, Boolean

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

Ans : An expression consists of variables and operators, which are constructed according to the syntax of the language, that reduces to a single value after evaluation

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

Ans : An expression consists of variables and operators, which are constructed according to the syntax of the language, that reduces to a single value after evaluation

A statement represents an action or command.

Eg: print statement, assignment statements

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

bacon = 22

bacon + 1

Ans : 22

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

'spam' + 'spamspam'

'spam' \* 3

Ans : Both will be equal

‘spamspamspam’

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

Ans : variable names should not 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 : The **int**(), **float**(), and str() **functions will** evaluate to the **integer**, **floating**-**point number**, and **string versions** of the **value** passed to them

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

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

Ans : 'I have eaten ' + str(99) + ' burritos.'