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?

Variable is a named location used to store data in memory.It can be integer, float, complex numbers defined to the identifier which are mutable. Ex : i-10

String is a sequence of one or more characters which are immutable. Strings are entered within “ “ Ex : i=”value”

3. Describe three different data types.

Text – string

Numeric - Int, float

Boolean – true,false

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

Expression is made up of operators and operands – Ex : X=Y+2

Expression performs the mathematical operation. If the expression is + it performs addition operation

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

Statement is the instruction on how the operation is performed, Its declared with #

Expression performs the operation based on the logic

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

bacon = 22

bacon + 1

bacon=23

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?

eggs is not a integer where as 100 is an integer which can’t be defined as a variable

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

int float str

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

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

99 is an integer here added between operators

Adding 99 within quotes can make it a string

'I have eaten ' + ‘99’ + ' burritos.'