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' - Values

-87.8 - Values

- : Expression

/ : Expression

* : Expression

6 : Value

2. What is the difference between string and variable?

Strings are data type enclosed in single / double quotes, strings can contain interger, float, character and special characters.

Ex : “boi - \*\*\*L67”

Variables : Variable are reference we use to assign to an data type. Vaiables are identifiers, we use to call the input

X = 5 : X is the variable, that contains 5

3. Describe three different data types.

Numbers\_strings\_tuple\_list\_dictonary

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

Expressions contain operators in a sequence, that are executed in the prescribed manner to give desired output.

All expressions take inputs, process them and give outputs

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

Expression, is a combination of values, functions and operands. Which takes in input and gives out put

Statement is a standalone text to convey message, that doesn’t give out any output

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

bacon = 22

bacon + 1

: = 22

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

'spam' + 'spamspam'

'spam' \* 3

: spamspamspam - spamspamspam

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

Integer can’t be used as a variable name

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

Integer – int()

String – str()

Floating – Float()

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

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

Concatenation of strings can concatenate only strings - strings not to integers. Convert 99 to string and it won’t cause any error

Ex : a = 'I have eaten ' + ‘99’ + ' burritos.'