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.

Ans-

\* ------> expression

'hello' ------> value

-87.8 ------> value

- ------> expression

/ ------> expression

* ------->expression

6 -------> value

1. What is the difference between string and variable?

Ans - Variables are symbols that you can use to store data in a program. and a String is a type of information you would store in a Variable. String can be written - "apple", 'apple'

1. Describe three different data types.

Ans - List: the list is used for storing multiple data items in a single variable.

Integer: integer can store only numerical values.

Float: float can store only floating values such as 233.33, 22.2, etc.

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

Ans - Expression is made up of values, containers, and mathematical operators (operands) e.g

a = 2 + 3     and expressions are used to evaluate the values or represent the result on the screen.

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

Ans - Expression is made up of values, containers, and mathematical operators (operands) and the statement is just like a command that a python interpreter executes like print.

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

bacon = 22

bacon + 1

Ans - Sol: it gives 23 as execution code

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

'spam' + 'spamspam' = =

'spam' \* 3

Ans - sol: it will be the same

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

Ans - Variable names cannot 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 -  int() , float() , and str( )

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.'