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 : 'hello' , -, 6 , \* , - , / , +

2. What is the difference between string and variable?

**String** : String is collection of alphabet char denoted as in “string”

**Variable :** Variable is container that holds value of some mathematical equation or memory location.

3. Describe three different data types.

List : Lists are used to store multiple items in a single variable. List items are ordered, changeable, and allow duplicate values.

String : Strings in python are surrounded by either single quotation marks, or double quotation marks.

Strings are immutable. This means that once defined, they cannot be changed

Dictionary : Dictionaries are used to store data values in key: value pairs.

A dictionary is a collection which is ordered, changeable and do not allow duplicates.

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

An expression is a set of logic which includes mathematical expression, inbuilt python function to solve a task.

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

Expression is made up of values, containers, and mathematical operators 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 : 23

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

'spam' + 'spamspam'

Ans : spamspamspam

'spam' \* 3

Ans : spamspamspam

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

A variable name must start with a letter or the underscore character. A 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:

Int()

Float()

Str()

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

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

Ans: 'I have eaten ' + “99 “+ ' burritos.'