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.

\* 🡪 It’s a Mathematical Operator

'hello'🡪It’s a string.

-87.8 🡪 it’s a Integer Value.

- 🡪 It’s a Mathematical Operator

/ 🡪 It’s a Mathematical Operator

* 🡪 It’s a Mathematical Operator

6 🡪 it’s a Integer Value.

2. What is the difference between string and variable?

**String** is a sequence of characters inside either single quote or double quotes.

**Variable** is a reserved memory location to a stored value.

3. Describe three different data types.

1. Integer data Type.
2. Character/string data type.
3. Float point data type.
4. Boolean data type.

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

Expressions are made up of alphanumerical values and mathematical operators.

Expressions will perform mathematical operations.

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

An expression evaluates to a value.

A Statements represents an action or command.

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

bacon = 22

bacon + 1

Bacon contains 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?

Because python do not take integer value as a variable.

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

Int() 🡪 for Integer, float() 🡪 for floating point number, str() 🡪 for string.

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

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

It’s a syntax error. Because 99 value is not a string while other 2 expressions are strings.