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.

\* = math operator(multiplication)

'hello' = string

-87.8 = float

- = math operator(subtraction)

/ = math operator(division)

* = math operator(addition)

6 = integer

2. What is the difference between string and variable?

A String is a sequence of characters

A Variable is a name that is used to store a value.

3. Describe three different data types.

Int = Integer data type, they are positive, negative or whole numbers without decimal point.

Str = String data type, it is a sequence of characters.

Float = Float data type is a floating point or a decimal number.

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

An expression is a combination of values, variables, operators, and calls to functions.

Expressions in python produce some result after being interpreted by python interpreter.

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

Statement in python is used to create variables or display values.

Expressions in python produce some result after being interpreted by python interpreter.

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'

'spam' \* 3

Ans: 'spamspamspam'

'spamspamspam'

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

Ans: Variable name 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(), str()

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

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

Ans: cannot concatenate int and str. Can concatenate only str with str.