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' 🡪 value

-87.8 🡪 value

- 🡪 expression

/ 🡪 expression

* 🡪 expression

6 🡪 value

2. What is the difference between string and variable?

String is like group of characters/single character mentioned in (‘) or (“) or (‘’’).

Variable is like place holder name in memory which will help to identify the memory location and by using we can fille the memory with any data

3. Describe three different data types.

Interger, Strings, floating number

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

Expressions are like to do some required operation provided by programmer

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

Expression will be like doing some operation in python like addition,assignment.

Statement is like any valid line in python is called statements

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?

100 is like numeric data and as well variable name should not starts with any number

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

Int(),float(),str()

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

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

Here we are trying to combine string type and numeric data type. Which is not valid. We can do either addition of numeric data or concatenation of strings.

We can resolve this operation like below:

'I have eaten ' + ‘99’ + ' burritos.'

'I have eaten ' + str(99) + ' burritos.'