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

Values: 6 and ‘hello’

Expressions: - , / , +, \*

Since -87.8 is float

2. What is the difference between string and variable?

Variable is the file name(location name) and doesn’t have any value but string have value which can be stored and reuse it.

3. Describe three different data types.

Float – A number with decimal points known as Float data type

Int – The integer numbers are all positive numbers , Negative numbers & Zero expect the decimal numbers.

Complex – The combination of real and imaginary numbers is complex, eg: (4+34j)

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

Expression are made up of mathematical operators like +, \*, / - . Expressions can do mathematical operations with numbers.

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

An expression will do some calculations according to the operator and saves it in the defined variable.

In a statement, it directly saves the value as given in to the variable.

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?

We can’t declare variable name by starting with number and hence it is invalid.

eggs starts with alpha as per variable declaration rules.

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

I don’t know answer, also doesn’t understand the question. Sorry, I will answer this later part.

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

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

The addition of string and integer not possible and we need to use strong commanding to fix it. By changing 99 into str(’99) which solve the above expression.