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' -- values

-87.8 -- values

- -- expression

/ -- expression

* -- expression

6 -- values

2. What is the difference between string and variable?

String is any data which we use to write our program and variable are like container where we fill in the data and store it.

3. Describe three different data types.

Int, float, complex, Boolean, etc

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

Expression is made of values and mathematical operators. We use expression to solve our program or query.

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

Expression is made of values and mathematical operators and a statement is the whole line where we write the expression

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

bacon = 22

bacon + 1

bacon will contain 22 only as bacon +1 cannot be re assigned to the variable “bacon”

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

'spam' + 'spamspam'

'spam' \* 3

it should be same ‘spamspamspam’

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

Because a valid variable cannot be started by a number or integer

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.'

Because ‘99’ is an integer and we cannot addup or concatenate them together. The correct way is ‘I have eaten’ + str(99) + ‘burritos’