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: 'hello', -87.8, 6

Expressions: -, /, +

2. What is the difference between string and variable?

A string is a primitive data type, and a variable is a name pointing to a memory location, where a data is being held. A variable can be different data types, which depends on the type of data to which the variable is pointing.

3. Describe three different data types.

There are 4 primitive data types in Python: integers, float, strings, and Boolean.

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

An expression is made up of operators and operands, which is interpreted to produce some other value.

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

Statements represent an action or command, for example, assignment statements, print statements; while, expressions are a combination of variables, operations and values that yields a result value.

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

bacon = 22

bacon + 1

bacon contains 22

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

'spam' + 'spamspam'

'spam' \* 3

‘spam' + 'spamspam' => ‘spamspamspam'

‘spam’ \* 3 => ‘spamspamspam'

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

because a variable can’t start with a 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.'

We cannot concatenate strings with numbers. We can cast the integer, in this case, to a string, and then concatenate them, like this:

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