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

Answer: -87.8, 6 are integers ’hello’ is string. \*,-,/,+ are the expressions or mathematical operators.

2. What is the difference between string and variable?

A variable is used to store information of integer or string type as requested. But string is a data type stored in a variable.

3. Describe three different data types.

Integer, String, Boolean and float.

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

Expression is made up of values, variables, call to functions which needs to be evaluated. Once evaluated it gives a resultant output.

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

Statement represents an action but expression evaluates or returns a value.

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

bacon = 22

bacon + 1

23

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

'spam' + 'spamspam'

'spam' \* 3

‘spamspamspam’ both output will be same as shown in class video.

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

Python doesn’t accept variable name with integers into it or starting with integer as explained in class.

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.'

Error is due to concatenating string and integer data type. If we convert99 to string type then the error will not be showing up.