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 immutable, a fixed data. Variable can be assigned to different values.

3. Describe three different data types.

string, int, float, bool

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

Expression consists operators and operands. Every expression results into evaluated values/results.

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

Expression results into some output value.

Statement doesn’t return anything.

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

bacon = 22

bacon + 1

bacon is still 22 as result is not assigned back to bacon.

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

'spam' + 'spamspam' = ‘spamspamspam’

'spam' \* 3 = ‘spamspamspam’

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

In Python, variable names must begin with a letter or \_

So egg is valid variable name and 100 not.

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

Integer -> int(value)

Float -> float(value)

String -> str(value)

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

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

Fix: str(99)

Cause: Can only concatenate str, not int