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

Ans: Operators: \*, -, /, +

Values: ‘hello’, -87.8, 6

2. What is the difference between string and variable?

Ans: string always start & end with quotes

Variable stores the information

Eg: String X = ”Welcome”

“Welcome” is string & X is variable

3. Describe three different data types.

Ans: Integers, Floating-point numbers and Strings

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

Ans: An expression is a combination of values and operators. All expressions evaluate a single value.

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

Ans: An expression evaluates to a single value. A statement doesn’t

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

bacon = 22

bacon + 1

Ans: bacon = 22

Expression does not reassign the value to bacon.

(Need as Assignment statement: bacon = bacon + 1)

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

'spam' + 'spamspam'

'spam' \* 3

Ans: Both expressions will evaluate ‘spamspamspam’

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

Ans: Variable names can’t begin with number

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

Ans: Integer: int()

Floating-point number: float()

String: str()

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

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

Ans: This expression causes an error because string is combining with integer value.

Correct statement is: 'I have eaten ' + str(99) + ' burritos.'