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

Sol: values=’hello’, -87.8,6

Expressions=\*, -, /, +

2. What is the difference between string and variable?

Sol: a variable is a type of container which can store information. A string is data type which is used to represent text.

3. Describe three different data types.

Sol: 1. Integer: used to represent the integer data type

2. string: used to represent text data type

3. Boolean: used to represent bool data type

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

Sol: an expression is made up of combination of operators and operands. In expressions operators perform some operations on operands and give some result.

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

Sol: an expression produces some value or result and a statement is used for creating variables or for displaying values.

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

bacon = 22

bacon + 1

sol: 23

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

'spam' + 'spamspam'

'spam' \* 3

Sol: ‘spamspamspam’

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

Sol: a variable can start with character but not with integer.

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

Sol: int()

Float()

String()

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

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

Sol: this expression causes an error because integer values are not able to concatenate with string. We can fix it by making integer into string.