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.

Ans.

\* expression

'hello' ->value

-87.8 -> =value

- expression

/ expression

+ expression

6 value

2. What is the difference between string and variable?

Ans. String is a type of a variable whereas variable is a container which holds values.

3. Describe three different data types.

Ans. Int,float,string,bool

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

Expression is a combination of values, variables, operators, and function calls.

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

Expression is a combination of values, variables, operators, functions whereas statement is a complete line of code assigning a variable, conditional statements, loops.

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

bacon = 22

bacon + 1

bacon will be 22 because we are not updating the variable.

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

'spam' + 'spamspam'

'spam' \* 3

Ans. 'spamspamspam'

'spamspamspam’

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

Ans. Eggs is a string. We can start a variable with letter, but we can’t start with digits.

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

Ans. int(value) ,float(value) ,str(value)

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

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

Ans. Here string can’t be concatenate with a integer so the correct code will be:-

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