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?

ANSWER ---- A string is the collection of the characters surrounded by single, double, or triple quotes while a *variable* is to used hold some value that may change. For example:

X=”boy”

Here X is variable while boy is string.

3. Describe three different data types.

ANSWER ----- Three different data types are:

Numeric – It consist of integer, floats and complex numbers.

 Sequence – It consist of strings, list and tuple.

 Boolean – It consists of two built-in values , TRUE or FALSE.

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

ANSWER – An expression is a combination of operators and operands that is interpreted to produce some other value.

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

ANSWER – An expression is used to evaluate a value while statement does something, like creating a variable or displaying some value

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

bacon = 22

bacon + 1

ANSWER: 23

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

ANSWER:

'spam' + 'spamspam' ----- spamspamspam

'spam' \* 3 ------- spamspamspam

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

ANSWER: A variable name must start with a letter hence eggs is a valid variable while 100 start with number so it is invalid variable.

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

ANSWER: int() --- To get integer

float() ---- To get floating-point

str( ) ---- To get string

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

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

ANSWER: we can’t add strings and a numeric value so the expression is causing error.

To fix it we can make 99 a string by enclosing it within quotes. For example:

'I have eaten ' + ‘99’ + ' burritos.'