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 a datatype which stores literal/text kind of data but a variable cam be anything which can store some data. For eg- x=6 and y=’abc’, here x,y are the variable and ‘abc’ is the string data.

3. Describe three different data types.

Answer- String, Integer, float.

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

Answer- Expressions are made up of identifiers, literals and Operators. Expressions are used to evaluate some 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 some values whereas statement represents an action or command. For eg- spam=10, here = is an expression which evaluates that spam is holding 10 value and spam=10 is itself an assignment statement.

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

bacon = 22

bacon + 1

Answer= After running these two statements bacon will contain 23.

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

'spam' + 'spamspam'

'spam' \* 3

Answer- 'spam' + 'spamspam'= 'spamspamspam'

'spam' \* 3 = spamspamspam

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

Answer- eggs is a valid variable because it is made of alphabets but 100 is a numerical value which can’t be a variable name because- if we have int eggs=10, int 100=10, the system will get confused to perform operations like int x=eggs\*100 in between 1000 and 100.

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

Answer- int(), float() and str().

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

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

Answer- Because integer cannot be concatenated with string. The correct statement is - 'I have eaten \"99" burritos.'