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?

**Ans:** String is a data type, whereas variable is an entity or a location where we can assign or store a data value of desired data type.

3. Describe three different data types.

**Ans:** Three different data types are:

Integer, float, Boolean, string etc.

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

**Ans:** Expressions are generally made up of variables, operators and data values.

All expression produces some sort of result based upon the operator used in the expression.

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

**Ans:** The assignment statements, like “spam = 10” assigns vale 10 into the variable spam. Difference between an expression statement and an assignment statement is that expression statement executes to produce a result that may be or may not be assigned into a value but an assignment statement does not produce a result it simply assigns a value into a variable.

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

Bacon = 22

Bacon + 1

Ans: 23

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

'spam' + 'spamspam'

'spam' \* 3

Ans: 1. ‘spamspamspam’

2. ‘spamspamspam’

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

Ans: Since in Python language a variable name can’t be started with a numeric character.

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

Ans: int() , float() & str() are three functions to get integer, floating point or string version of a value respectively.

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

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

Ans: Because the first and the last values are string data type and the middle one is integer data type, so the summation is not possible and caused an error.

Debugging: ‘I have eaten’ + ‘99’ + ‘burritos.’