**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**

Ans:

Values – ‘hello’, -87.8,6

Expressions - \*,-,/,+

**2. What is the difference between string and variable?**

**Ans:**  A variable is used to store the information, whereas string is a type of information which is stored inside a variable.

**3. Describe three different data types.**

**Ans:**  String, int, Boolean

String is a sequence of characters in double quotes (“ ” ).

Int consists of any whole number (positive or negative) but not decimal.

Boolean: It represents the truth value of an expression. It has two values- True and False.

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

**Ans:**  An expression is an mixture or combination of variables, operators, values and function calls.

It presents a result or value after interpreting the expression.

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

**Ans:** A statement is used for creating variables or for displaying values. The expression produces a result after getting interpreted, whereas statement is not evaluated for results.

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

**bacon = 22**

**bacon + 1**

**Ans:** The variable bacon will still have the value 22

If bacon = bacon+1, then It would have been 23

**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:** Because a variable name shouldn’t start with a number.

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

**Ans**: int(), float(),str()

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

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

**Ans:** Because 99 is an integer and the remaining are strings.

String and integer cannot be concatenated.

To fix this: **'I have eaten ' +’ 99’ + ' burritos.'**