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.

**\* = An expression**

**'hello' = A Value**

**-87.8 = A Value**

**- = An expression**

**/ = An expression**

* **= An expression**

**6 = A value**

2. What is the difference between string and variable?

**A variable is a place where we can store a value whereas string is a value which represents text that is stored in some variable. Strings are variable but not all variables are string.**

3. Describe three different data types.

**The three different data types are:**

**Int – This data type makes sure that the variable it is being assigned to have the integer value in the program.**

**Float – This data type is used for decimal values in the program.**

**String – This data type writes the Unicode characters or in simple way you can say as text.**

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

**An expression is made of data type, variable and operators basically. Expressions are used to assign values as well as perform some functions in order to make program work.**

**Example: x = 7**

**Int a = b\*c**

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

**An expression is a combination of values and operator. An expression evaluates to a single value but the statement does not.**

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

bacon = 22

bacon + 1

**The variable will still have the value 22. ( bacon +1 ) value is not assigned to bacon.**

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

'spam' + 'spamspam'

'spam' \* 3

**The value of both of these terms are spamspamspam.**

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

**Eggs is a valid variable name because it is a combination of lowercase letters.**

**100 can not be a valid variable name because a valid variable name does not start with a digit.**

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

**Three functions will be int(), float() and str().**

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

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

**99 is an integer and you can only concatenate a string to the other string.**

**The correct way to write this expression will be using the str function.**

**‘ I have eaten ‘ + Str(99) + ‘burritos.’**