**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**

**Soln:**

In this question Operator are \*, -, /, +

Values are ‘hello, -87.8, 6

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

**Soln:**

Strings are used to represent alphabetical characters whereas Variable is used to store data in a program.

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

**Soln:**

**I**Integer, Floating-point number, String

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

**Soln:**

An Expression represents combination of values, operator, variable

Eg: a+b-c

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

**Soln:**

An expression is combination of values and operator that is interpreted by compiler and return a new value but statement do not return with new value it gives the value that is assigned to it.

Eg: Spam=10 is a Statement where else if we assign hey=5 and then do

Hey + spam= then it will return 15 which is an expression.

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

**bacon = 22**

**bacon + 1**

**Soln:**

Bacon=22

Since we have assigned bacon=22, bacon +1 will not ressign the value,

Correct assignment would be bacon=bacon+1

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

**'spam' + 'spamspam'**

**'spam' \* 3**

**Soln:**

It will be String.

spamspamspam

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

**Soln:** Variable cannot be start with numerical value.

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

**Soln:** For integer we use int(), For floating-point float() and for string str()

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

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

**Soln:**

In this expression we have string as well as integer,

The correct expression would be

'I have eaten ' + ‘99’ + ' burritos.'