**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:** ‘hello’, -87.8 and 6 are values. Where \*, -, /, + are expressions.

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

**Ans:** variable is like a container which stores data in a program,There are many types of variables. whereas string is a type of variable.

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

**Ans:** integer, string , complex

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

**Ans:** An expression is made up of Values, Operators, Variables, function calls etc. and it evaluates the value.

**5. This assignment statements, like spam = 10. What is the difference between an**

**expression and a statement?**

**Ans:** An expression extracts or evaluates the value, whereas a statement does not evaluate the value.

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

**bacon = 22**

**bacon + 1**

**Ans:** firstly “bacon” is initialized with 22 and next “bacon + 1” does not reassign the value because of the absence of assignment operator.

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

**‘spam’ + ‘spamspam’**

**‘Spam’ \* 3**

**Ans: spamspamspam** both the expressions return the same value.

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

**Ans:** because variable name can not start with number

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

**version of a value?**

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

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

**‘I have eaten’ + 99 + ‘burritos.’**

**Ans:** Here we want to concatenate two string values with one numerical value. That's why we have to face an error because we can not concatenate string and number value at same time. We can fix this error to convert 99 in string value with the help of ‘ ’.