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: 1.(\*, ‘hello’, -87.8, 6) are values.  
 2.(-, /, +) are expression**

2. What is the difference between string and variable?

**Ans: an array of Characters written under single or double quotes is called string  
Address where values are stored is called Variable.  
So string can be stored in variable but vice versa is not true.**

3. Describe three different data types.

**Ans: Numeric, Lists and Tuples.**

4. What is an expression made up of? What do all expressions do?  
**Ans: An expression is a combination of operators and operands that is interpreted to get desired result.  
Expressions perfoem specific operations according to written operators and operands and give output values.**

5. This assignment statements, like spam = 10. What is the difference between an expression and a statement? **Ans: In Expression operations are performed according to written operands and operators and final value is obtained as per expression.  
In statement we directly instruct what to do. I.e. which value to print or which value should be assign to variable.**

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

bacon = 22

bacon + 1  
**Ans: 22**

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

'spam' + 'spamspam' **=”spamspamspam”**

'spam' \* 3 **=”spamspamspam”**

8. Why is eggs a valid variable name while 100 is invalid?  
**Ans: Variable name can have numbers but not at the beginning.**

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: because 99 is not a string and we cannot concatenate different data types.  
so if we change 99 to string then we can eliminate error.**