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 are :- ‘hello’, -87.8, 6**

**Expressions/Operators are :- \*, -, /, +,**

2. What is the difference between string and variable?

**Ans: String is a data-type used to store single or a group of characters whereas variable is used to store data of particular information**

3. Describe three different data types.

**Ans: int – It is used to store integer/numeric data type**

**float – It is used to store decimal values**

**string – string is used to store single or group of characters**

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

**Ans: Expression is made up of variables, operators or any kind of function which is executing some task.**

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

**Ans: Expression is made up of variables, operators or any kind of function which is executing some task. In** spam = 10, it is just assigning value to the variable but not executing any mathematical expression.

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

bacon = 22

bacon + 1

**Ans: bacon contains 22 because above expression will not reassign the value to the variable.**

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

'spam' + 'spamspam'

'spam' \* 3

**Ans: Both the expressions will give same output i.e. ‘spamspamspam’.**

**In first line we are doing string concatenation and in second line we are doing string multiplication.**

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

**Ans: Variable name must start with letter not digit.**

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() functions can be used to get respective values.**

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

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

**Ans: Concatenation can only be done with string values .**