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.

\* **-Mathematical Operator**

'hello' **-String**

-87.8 **-Value**

- **-Mathematical Operator**

/ **-Mathematical Operator**

+ **-Mathematical Operator**

6 **-Value**

2. What is the difference between string and variable?

**Answer- Variables are used to store the data, while string are the data that to be stored in that variable.**

3. Describe three different data types.

**Answer- Three different data types are-:**

**1-) int - this data type is used for integer values.**

**2-) float - this data type is used for decimal values.**

**3-) complex - this data type is used for the complex or Imaginary values.**

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

**Answer- Expressions are made up of variables, values(operands) and operators. Expressions are used to produce some other value for the further execution of program.**

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

**Answer- Statement- It is used for creating variable, While Expression generates some result after the interpretation of program.**

**Example- spam = 10 is a Statement where as spam = 10\*3 is an Expression.**

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

bacon = 22

bacon + 1

**Answer- After running this code, bacon will contain 23**

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

'spam' + 'spamspam' **Output- spamspamspam**

'spam' \* 3 **Output- spamspamspam**

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

**Answer- eggs is a valid variable and 100 is invalid because conventionally Variable can be start with alphabet but not with numbers.**

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

**Answer- To get the integer value int() function is used.**

**- To get the string value str() function is used.**

**- To get the floating-point number float() function is used.**

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

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

**Answer- 'I have eaten ' + 99 + ' burritos.' will cause an error because concatenation can be done only using strings and 99 is a numeric value.**

**To fix this following code will be used-:**

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