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.

\* : expression

'hello' : value

-87.8 : value

- : expression

/ : expression

* : expression

6 : value

2. What is the difference between string and variable?

**Answer** : String is a type of data which is generally specified by mentioning in single or double inverted commas whereas variable is a thing which is used to hold data.

3. Describe three different data types.

**Answer** : Following are the data types in python :

1. int : int is integer type data. It can be positive or negative whole numbers (not decimal values) Eg. : 21
2. float : Float is also a numerical data type like int, but it has decimal values. Eg : 21.27
3. str : str is string type data. It is specified by mentioning characters or numbers or combination of both inside single or double inverted commas. Eg. “Aniket”

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

**Answer** : An expression is made up of values(variables) & operators. The operator can be mathematical, Boolean or assignment operator. Any expression gives a value as an output.

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

**Answer** : Any expression gives a value as an output, that value may change as the variables in an expression change. Whereas in a statement we assign value to a variable or we generally make a statement, a statement doesn’t make any calculations unlike an expression.

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

bacon = 22

bacon + 1

**Answer** : The variable bacon still contains 22 because after adding 1 to it the result is not stored in any other or the same variable.

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

'spam' + 'spamspam'

'spam' \* 3

**Answer** : ‘spamspamspam’

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

**Answer :** The variable names are usually made up of characters or combination of characters & numbers, only numbers can not be a variable name. That’s why eggs is a valid variable name while 100 is invalid. Also, the variable name can not begin with a number.

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

**Answer** : int() , float() , str()

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

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

**Answer** : The above expression causes an error because we can not concatenate string to integer, we can concatenate string to string, so to fix it we need to mention 99 in single or double inverted comma so 99 will act like a string and concatenation van be done.