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.

**Ans. \* - Expression**

**'hello' - Values**

**-87.8 - Values**

**- - Expression**

**/ - Expression**

* **- Expression**

**6 - Values**

2. What is the difference between string and variable?

**Ans. Variable –** Variables are used to store the information/data inside the program. Basically, they store value at particular memory location inside the program.

**String –** Strings are basically the information which are stored in a variable. In Python, anything which are inside “ “ or ‘ ‘ are stored as string.

3. Describe three different data types.

**Ans.** Below are the three different types of data types : -

1. String - Used to store the Alpha numeric data.
2. Numeric – Used to store numerical values such as integer, float
3. Complex- Used to Store the True or False

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

**Ans.** Expressions are made up of Values and operators. Expression evaluates a value.

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

**Ans.** An expression is an instruction that combines values and operators and evaluates a single value while statement is an instruction that interpreter executes.

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

bacon = 22

bacon + 1

**Ans. 23**

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

'spam' + 'spamspam'

'spam' \* 3

**Ans.** 'spam' + 'spamspam' --->>'spamspamspam'

'spam' \* 3 --------- >>>>>'spamspamspam'

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

**Ans.** Integer cannot be a variable in python. Only, Alphanumeric can be variable. So, eggs is eggs a valid variable name while 100 is invalid

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.** Above expression will generate the error, as integer and string can be concatenated.