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?
 - String :- A string can be written in quotes such : "Pankaj", 'Pankaj'
 - Variable :- It is the thing in which we can store data just like a container.
- 3. Describe three different data types.
 - Integer: Integer can be store only numerical values.
 - Float : Float can be store only floating values such as 3456.764, 6745.53445 etc.
 - List : The list is used for storing multiple data items in a single variable.
- 4. What is an expression made up of? What do all expressions do?
 - Expression is made up of values, containers, and mathematical operators (operands)
 - eg a = 2 + 3 and expressions are used to evaluate the values or represent the result on the screen.

- 5. This assignment statements, like spam = 10. What is the difference between an expression and a statement?
 - Expression is made up values, containers, and mathematical operators (operands) and the statement is just a command that a python interpreter executes like print.
- 6. After running the following code, what does the variable bacon contain?
 - bacon = 22
 - bacon +1
 - sol: (output = 23) it gives 23 as execution code.
- 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?
 - We can't start giving variable an integer name. if we, we should begin with, a string-like alphabet name then integer. e100 or eggs100 is valid.
- 9. What three functions can be used to get the integer, floating-point number, or string version of a value?
 - Str(), int(), float()

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

'I have eaten' + 99 + 'burritos'

• sol: because 99 is an integer it cannot be concatenated with strings, if we have to concatenate it we need to do typecasting.