

# Python Practice Session

A data file named 'random\_integer\_data' has been provided containing an array of 4000 random integers. Attempt the following questions to familiarize with the basic python syntax.

1) Write a Python code and Find the sum of :

- a) First 100 numbers
- b) Last 100 numbers
- c) First 2000 numbers
- d) Last 2000 numbers
- e) 'Sum' and 'mean' of numbers in chunks of 100 numbers.

2) Write a Python code to :

- a) Find the number of times number 89 is repeated
- b) Find the positions (can be called, line number in the file) where the number 89 is placed in the array. This would be a list numbers signifying positions.
- c) Find the number of times all the numbers are repeated.
- d) Find the number which is repeated the maximum number of times.

3) Write a Python code to find :

- a) Largest and smallest number amongst the first 100 numbers.
- b) Largest and smallest number amongst 101<sup>st</sup> position to 201<sup>st</sup> position.
- c) Largest and smallest number in chunks(orderwise viz. 1-100, 101-200, 201-300, so on and so forth...) of 100 numbers taken at a time.
- d) Find the mean of the two numbers(largest and smallest) in each chunk obtained in the part c).

4) Write a Python code and Find :

- a) Number of odd integers.
- b) Number of even integers.
- c) the list of odd integers.
- d) the list of even integers.
- e) Find the average of the odd integers and the even integers and compare both.