Sum of List of Numbers

Project Description:

The project is to get the sum of list of numbers starting from 1 and till max as [1, 2, 3 … max].

It will give the total response in JSON format at the call of REST endpoint URL <http://localhost:5000/total>

Framework: Python 3

IDE: PyCharm

Repository: GitHub

Assumptions:

The list of numbers are well defined sequence starting from 1 as 1, 2, 3 …

The list of numbers is expected to arrive from a backend service so for this test I hard coded the list as below.

numbers\_to\_add = list(range(10000001))

Tests:

Request: <http://localhost:5000/total>

Parameter: numbers\_to\_add = list(range(11))

Response:

{

“total”: 55

}

Parameter: numbers\_to\_add = list(range(51))

Response:

{

“total”: 1275

}

Parameter: numbers\_to\_add = list(range(101))

Response:

{

“total”: 5050

}