



Date: -15/10/2020

Teaching Aids: Simulation

1. **Class/Semester:** Third Year / V
2. **Course:** Application development using python programming
3. **Course code:** 18CS55
4. **Topic :** Function definition and function call
5. **Simulation model (Online):** <https://pythontutor.com/>


Start visualizing your code now


You can also embed visualizations into any webpage. Here is a Python example:

The screenshot displays a Python 3.6 code editor on the left and a memory visualization on the right. The code defines a recursive function `listSum` and calls it with a list of tuples. The visualization shows the state of the memory at a specific step:

- Global frame:** Contains `listSum` (pointing to the function object) and `myList` (pointing to a tuple object).
- listSum frame:** Contains `numbers` (pointing to a tuple object), `f` (value 1), and `rest` (pointing to another tuple object).
- Objects:** Three tuple objects are shown: `(1, 1)`, `(2, 1)`, and `(3, None)`. Arrows indicate that the `numbers` variable in the `listSum` frame points to the `(3, None)` object, and the `rest` variable points to the `(2, 1)` object.

Below the code, there is a legend: a green arrow for "line that just executed" and a red arrow for "next line to execute". A progress bar shows "Step 11 of 22".


15/10/2020
Dr. K. B. Manwade
Course coordinator


15/10/2020
Prof. S. V. Manjaragi
HOD
H.O.D
Computer Science & Engg.
HIT, Nidasoshi.