

CODE EXPLANATION OF SIMULATED ANNEALING

In the given program of the Simulated Annealing, the customization section has been marked to work through and test the program on various conditions.

The Customization section has also specified how to input your objective function. Now, before running the program, these user-end dependencies need to be addressed -

Modules required:

- time
- random
- math
- NumPy
- matplotlib.pyplot

These are the introductory module for the program to work as desired. All the customization variables as specified:

- initial temperature or system temperature
- cooling coefficient
- number of variables in a given function
- upper bounds (x_{upper} , y_{upper} , z_{upper})
- lower bounds (x_{lower} , y_{lower} , z_{lower})
- counting time

These variables mentioned above and the objective function can be modified to test on different conditions, provided the above dependencies have been addressed.

The code output has been provided in the "**Assignment8_ME8710_Output.pdf**."