

SoC - WnCC

Intelligent Agents

Assignment 1

Create an array containing **10,000** entries with value **0**

Assume the **5000th** entry to contain the value **1**

Process :

5 random entries swap with another set of 5 random set of entries

The entries next to a **1** each have a **0.35** probability of getting converted to **1**

Note that it is **not mandatory** for one of the neighbours to be converted into **1**

Keep repeating the process till every entry becomes 1

Plot the same three graphs from the previous task (given below)

Plot 1: #1s vs #iterations

Plot 2: #iterations vs #runs

Plot 3: dy/dx vs x

Upload your code and the plots on your GitHub handle with the name as

SoC-Task-3-Code-name

SoC-Plot-1-name

SoC-Plot-2-name

SoC-Plot-3-name

respectively

Deadline : April 02, 2020 23:59