**MEL G641 CAD for IC Design**

**Project Report**

**GUI implementation of CAD algorithms using Python**

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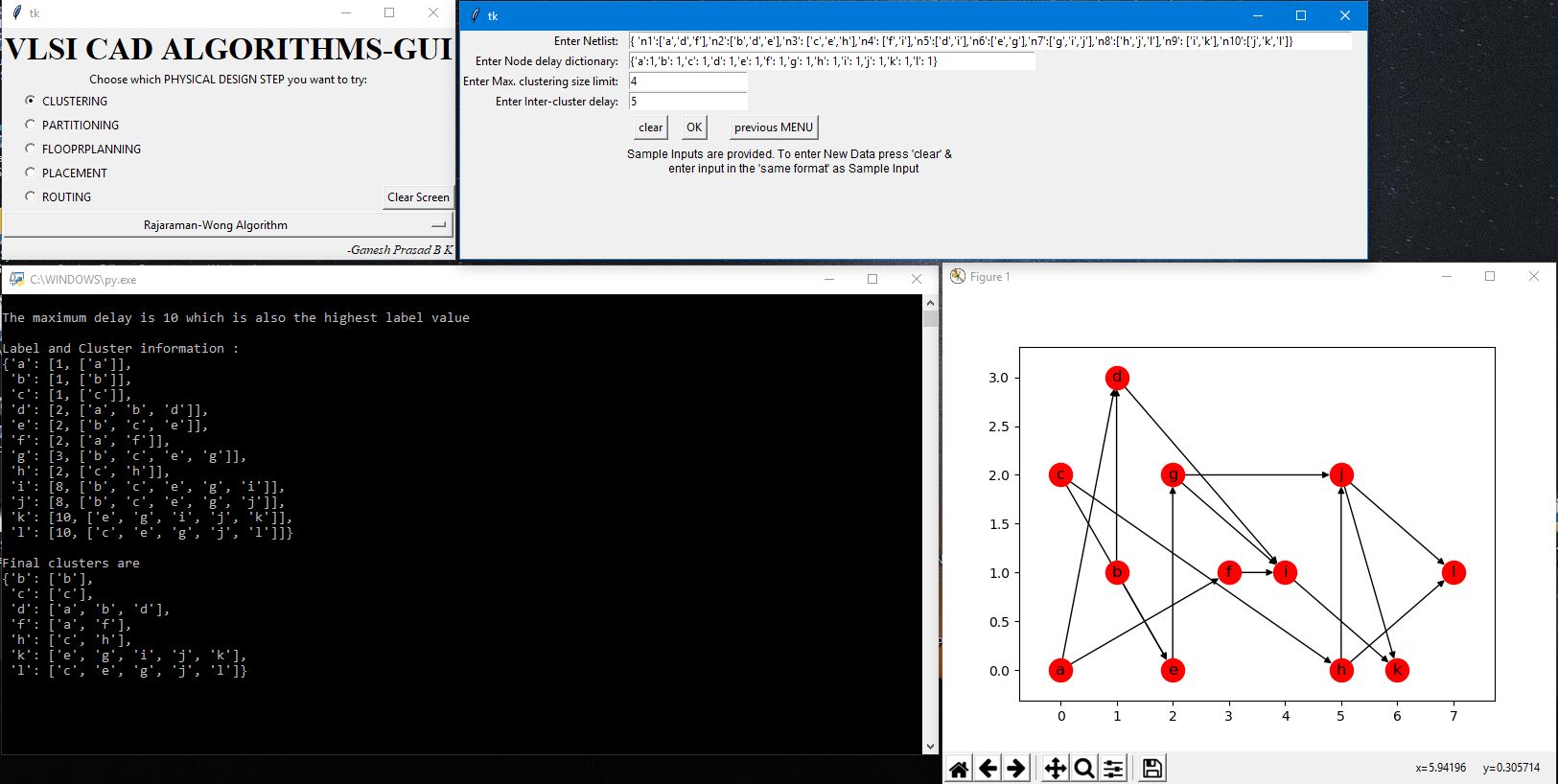
M.E Microelectronics

Department of Electrical & Electronics

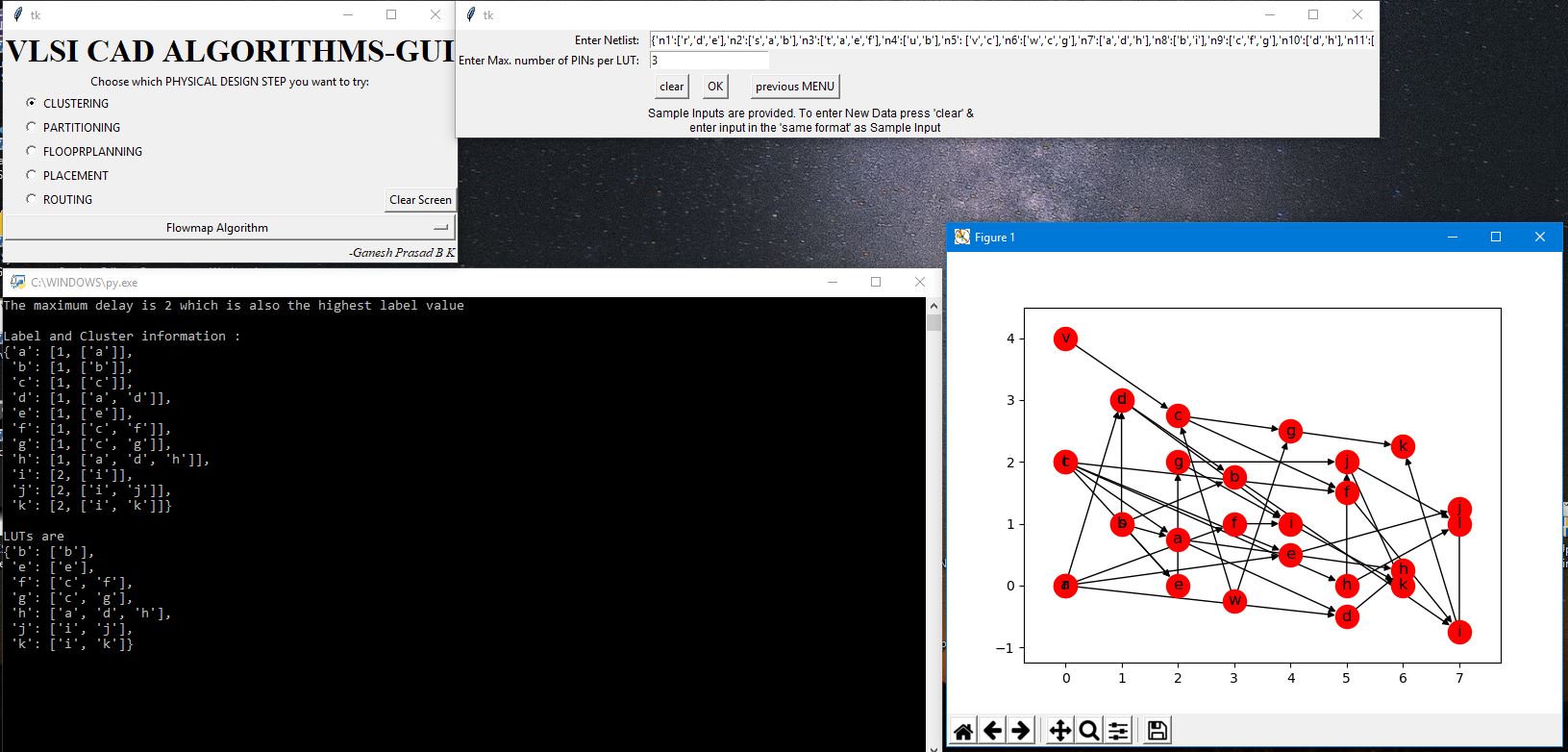
BITS Pilani – K K Birla Goa Campus

Zuarinagar, Goa 403726

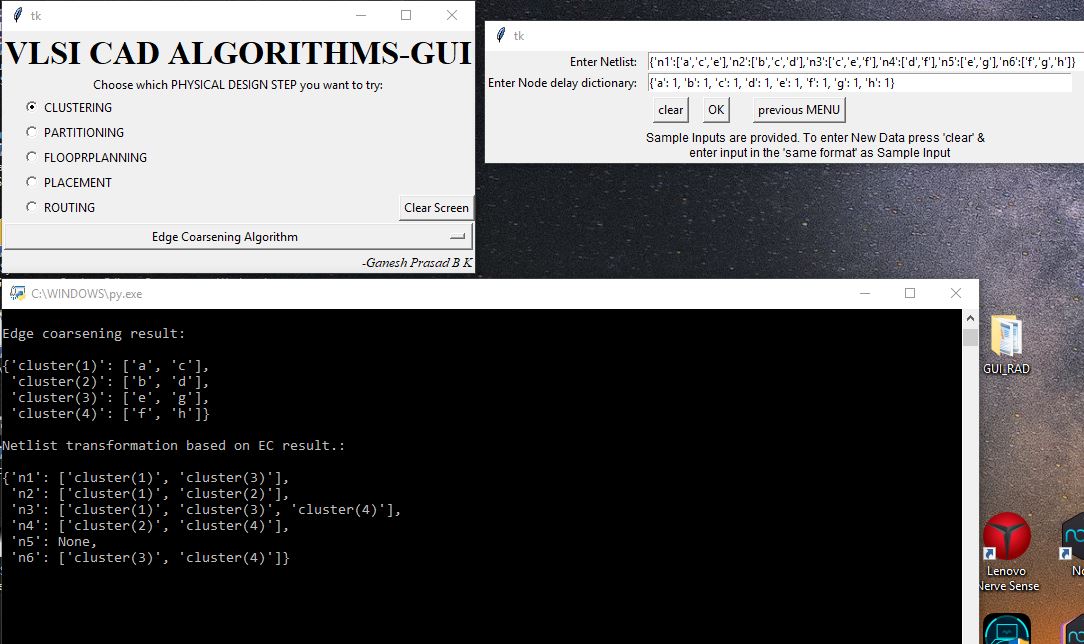
Below are the output images of GUI implemented for various algorithms on CAD



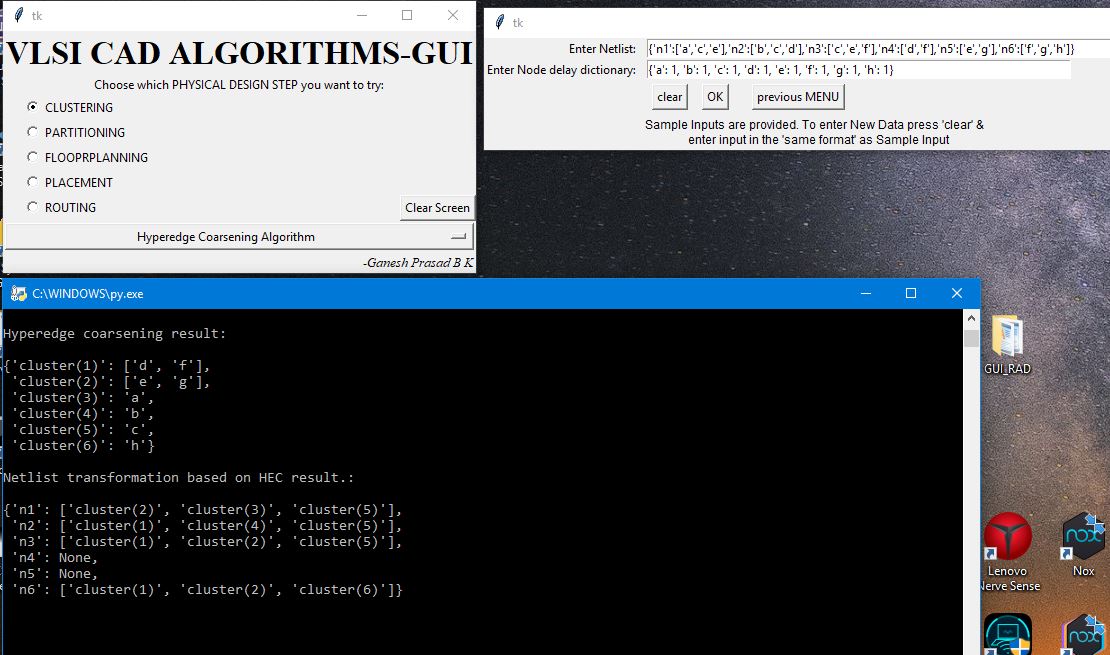
**Clustering: Rajaraman-Wong Algorithm**



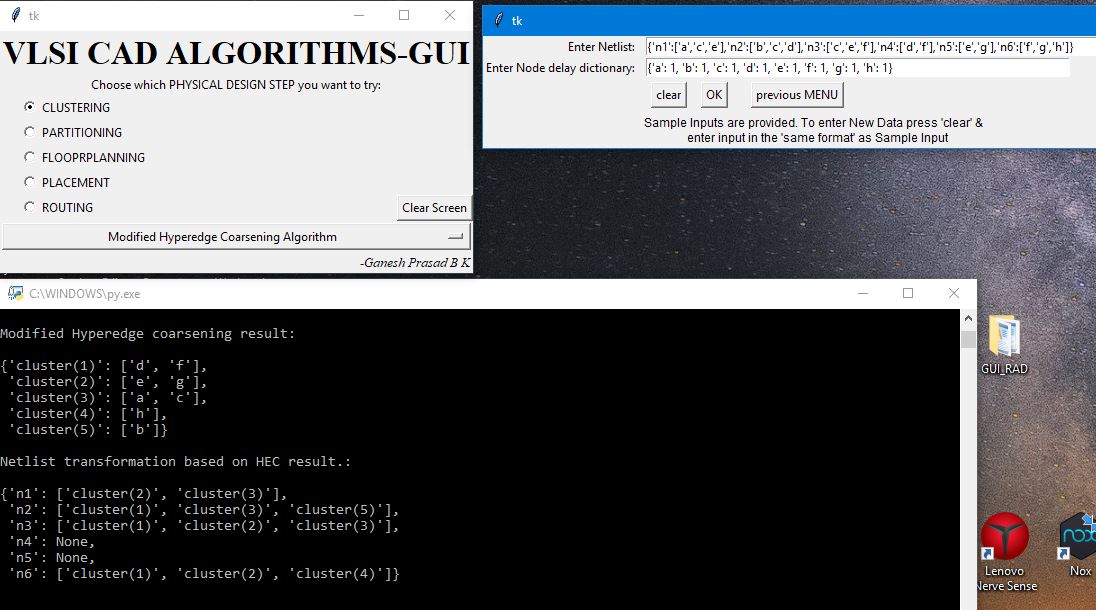
**Clustering: Flowmap Algorithm**



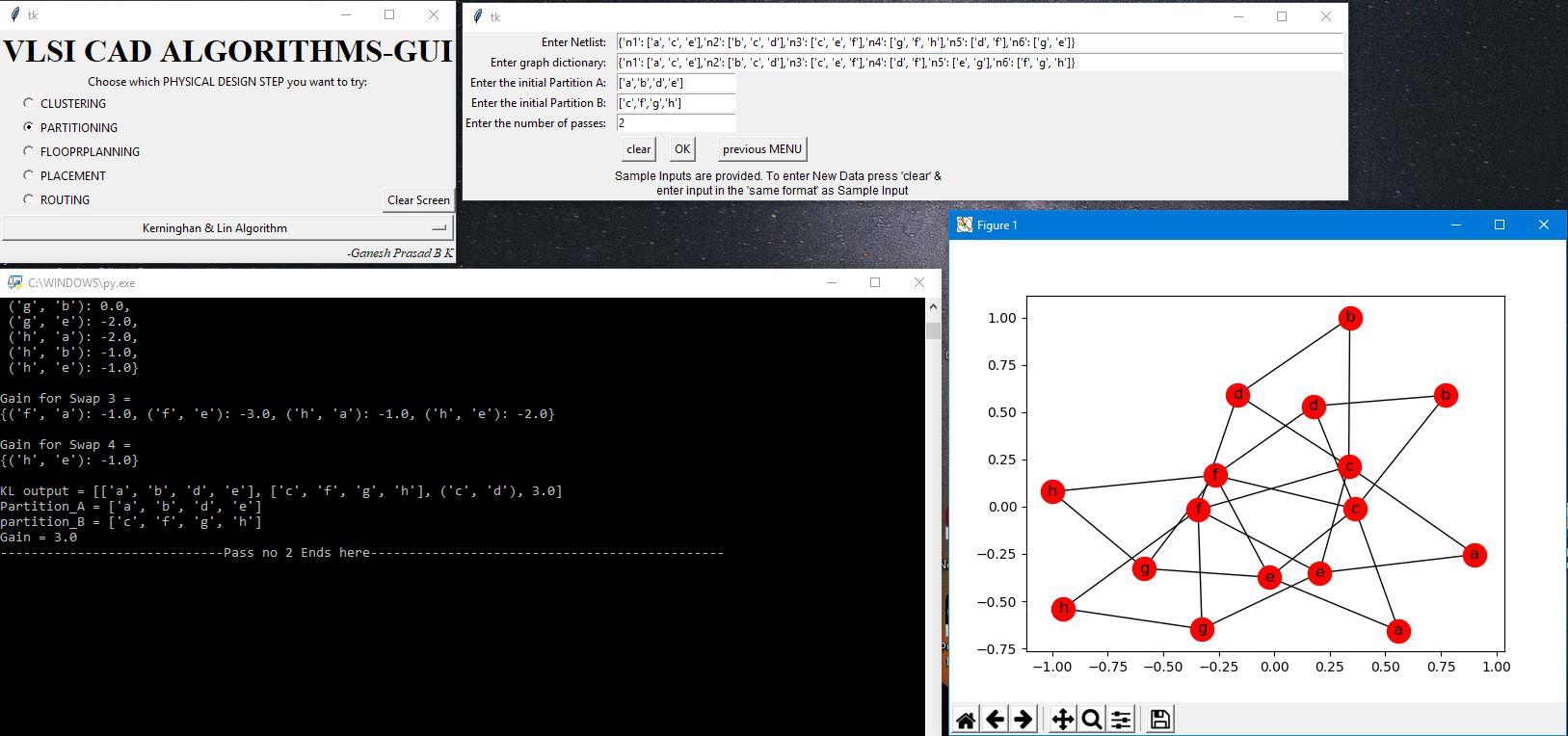
**Clustering: Edge Coarsening Algorithm**



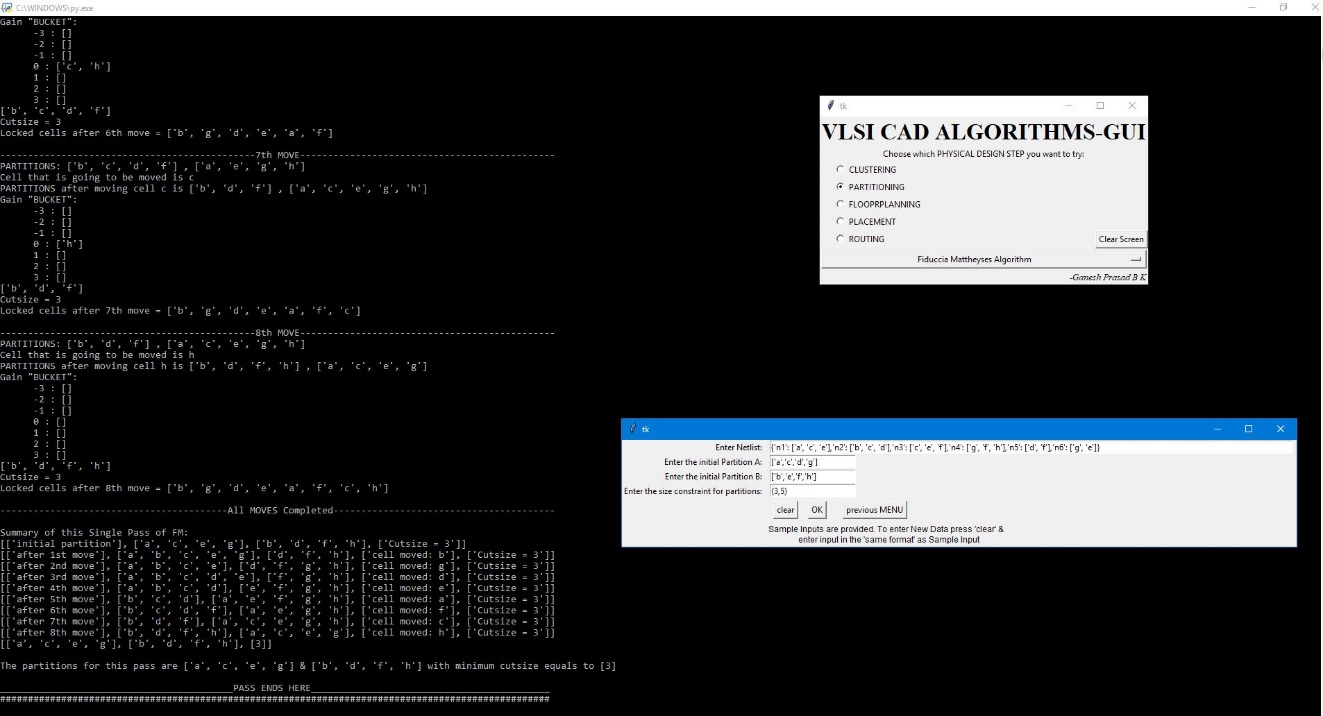
**Clustering: Hyper-Edge Coarsening Algorithm**



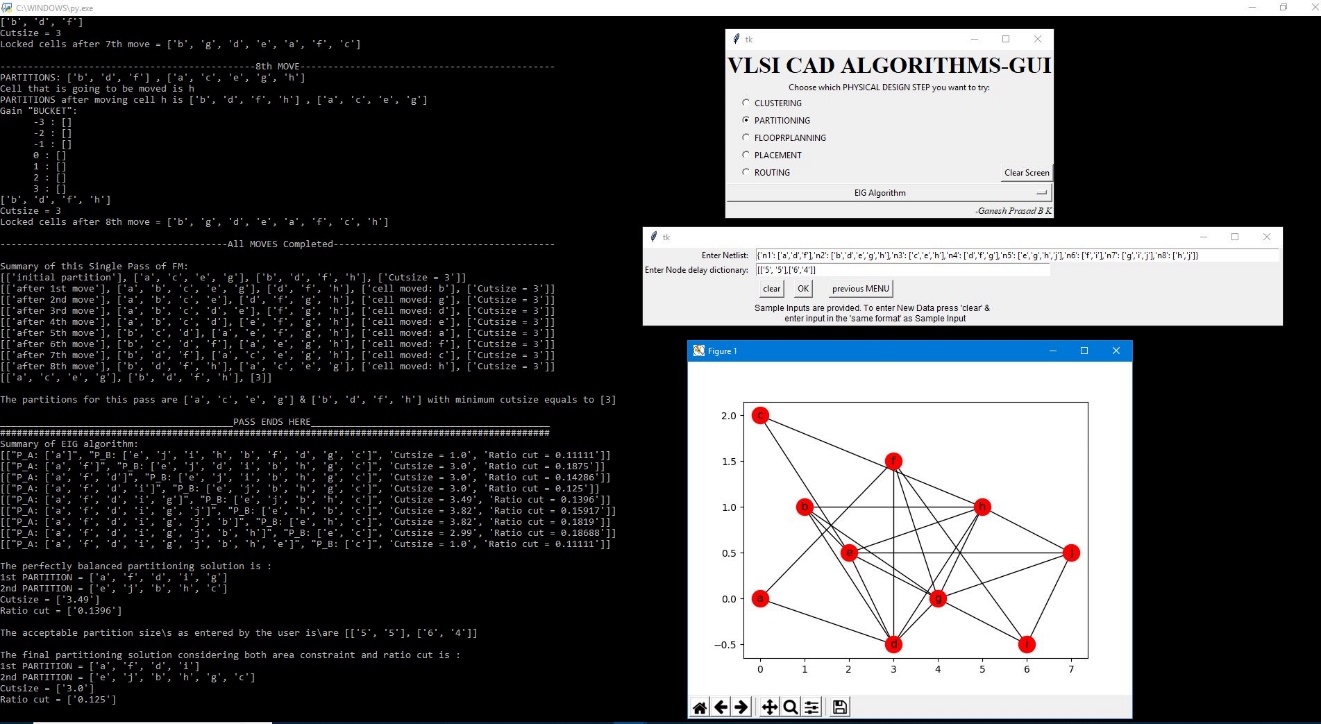
**Clustering: Modified Hyper-Edge Coarsening Algorithm**



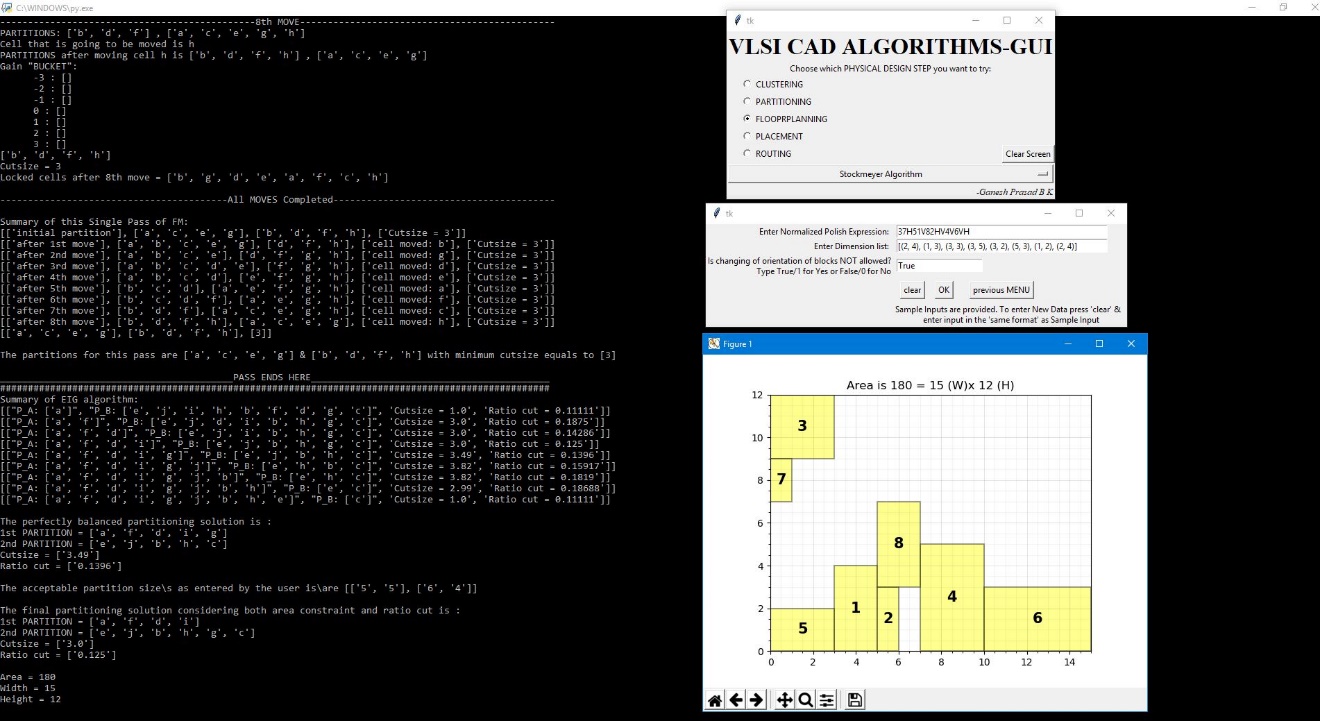
**Partitioning: Kernighan-Lin Algorithm**



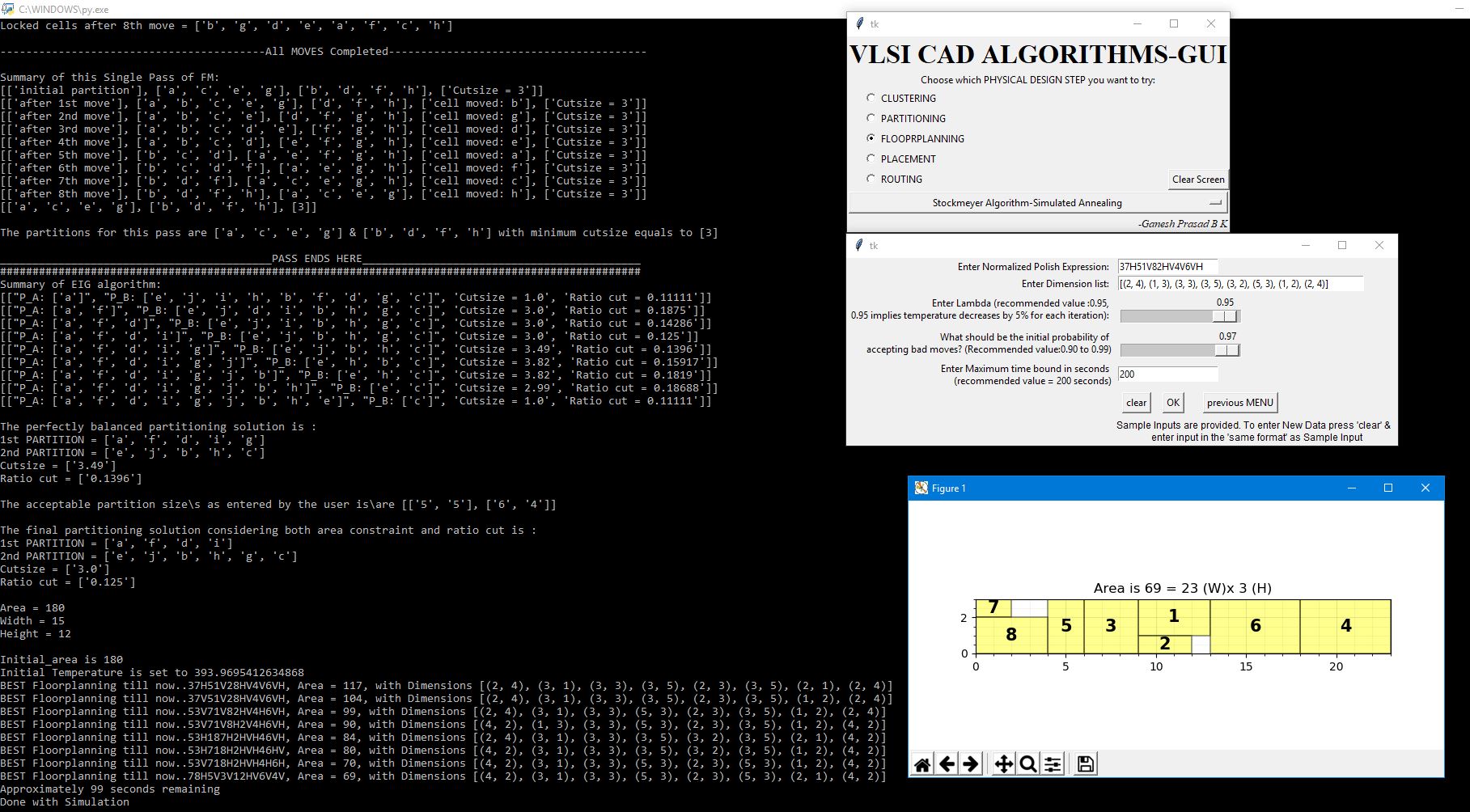
**Partitioning: Fiduccia-Mattheyses algorithm**



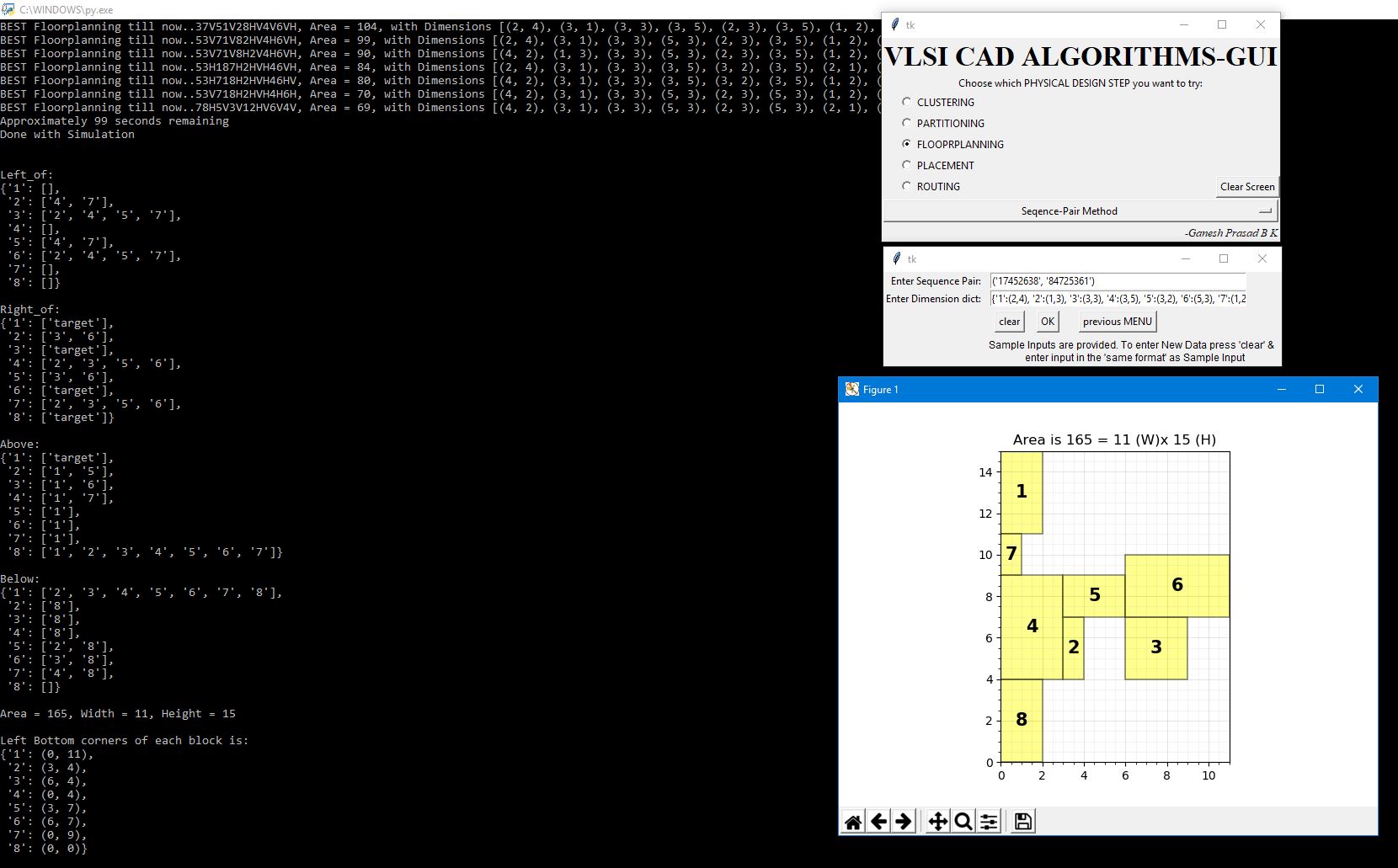
**Partitioning: EIG Algorithm**



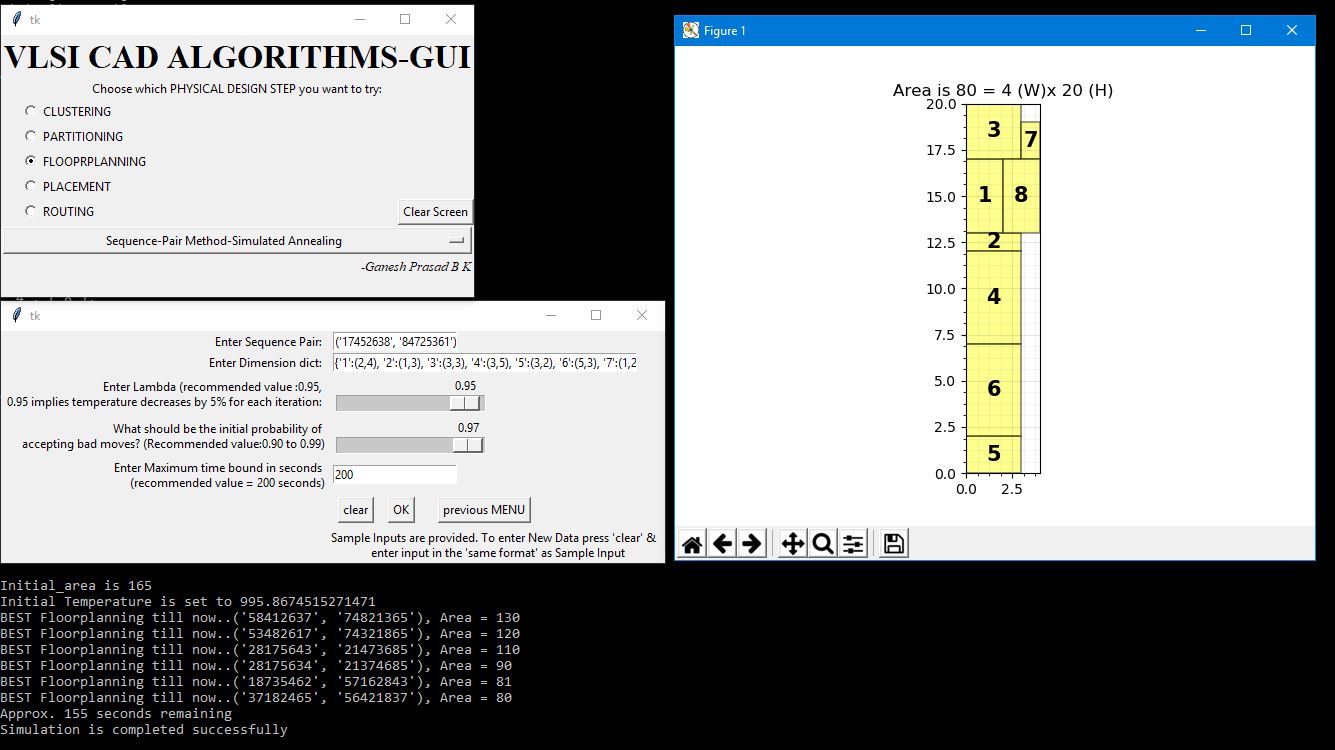
**Floor planning: Stockmeyer Algorithm**



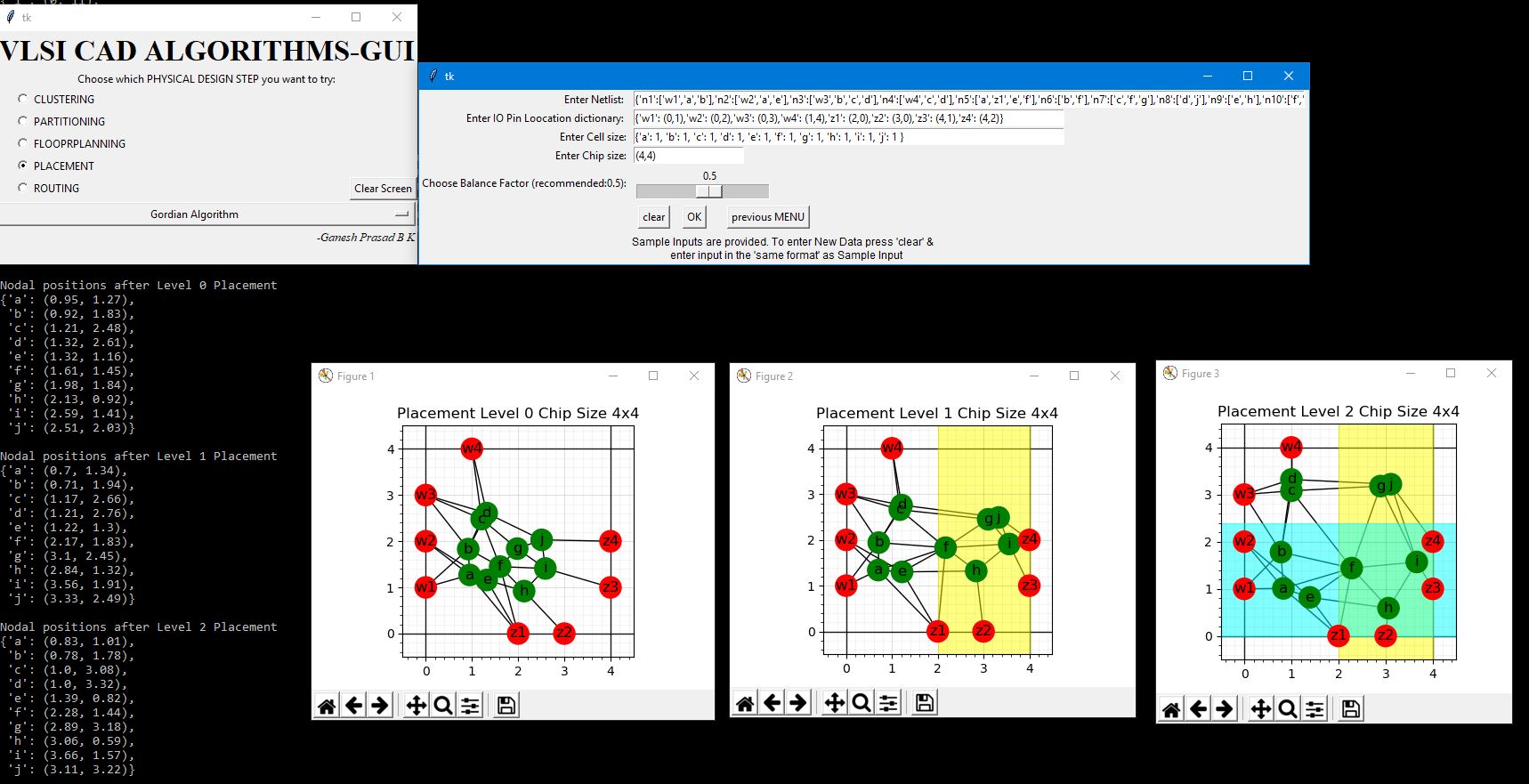
**Floor planning: Stockmeyer Algorithm with Simulated annealing**



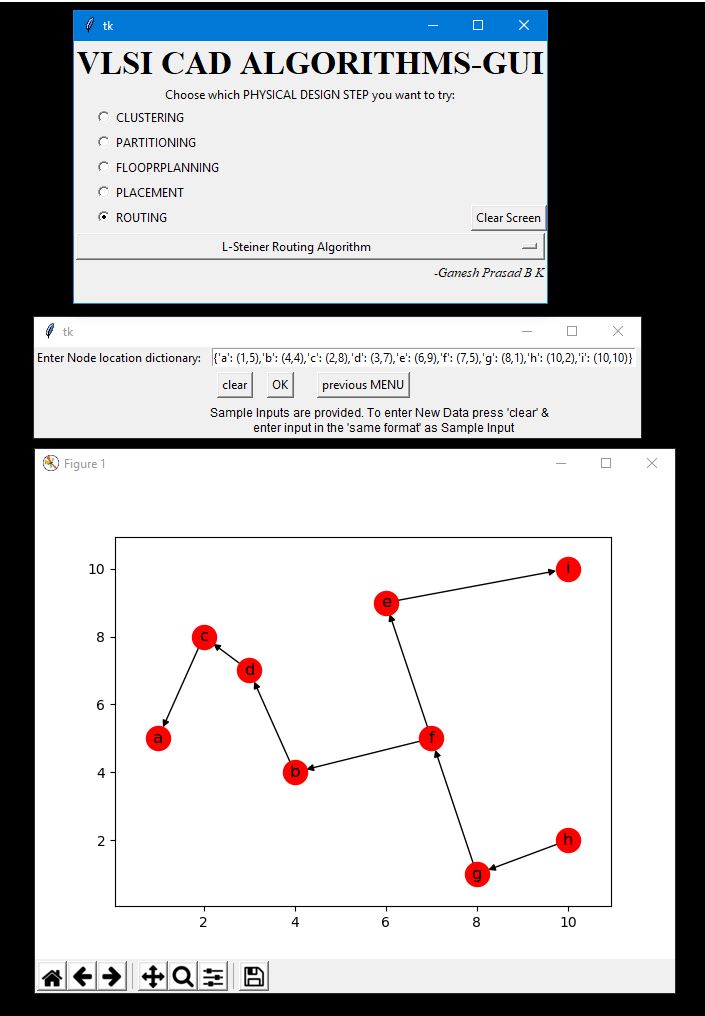
**Floor planning: Sequence-Pair Method**



**Floor planning: Sequence-Pair Method with Simulated annealing**



**Placement: Gordian Algorithm**



**Routing: Steiner Routing Algorithm**