1. **Please mention group members names and UFID.**

Name: Smrati Pandey

UFID: 43239459

Sachit Verma

UFID: 01910863

Download the file and unzip it

Run the command: mix run proj2.exs 100 full gossip

**Topologies:** full | line| torus | honeycomb | randHoneycomb| rand2D

**Algorithm:** gossip | push-sum

1. **What is working?**

All the topologies are successfully implemented and supported by the Gossip and Push-Sum Algorithm.

1. **What is the largest network you managed to deal with for each type of topology and algorithm?**

|  |  |  |
| --- | --- | --- |
| **Topology** | **Gossip** | **Push Sum** |
| Full Network | 500 (10578 ms) | 250 (25047 ms) |
| Line | 50 (750 ms) | 200 (579235 ms ~ 10 min) |
| Random 2D Grid | 500 (13656 ms) | 400 (218938 ms ~ 3.5 min) |
| 3D Torus Grid | 2000 (3516 ms) | 1500 (679360 ms ~ 11 min) |
| Honeycomb | 3000 (4000 ms) | 500 (671453 ms ~ 11 min) |
| RandomHoneycomb | 2500 (5500 ms) | 2200 (548359 ms ~ 9 min) |