**Group Members:**

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Name: Santhosh Suresh UFID: 5985-1919

**How to run the project:**

* Navigate to the project folder, **cd project3**
* Use the following command to run the project.
  + mix run proj3.exs numofnodes noofrequests
    - numofnodes: no of nodes to be created
    - noofrequests: no of messages to be sent from each node

**Sample I/Ps and O/P**:

Shashanks-MacBook-Pro:tapestry sbantakal$ **mix run proj3.exs 1000 5**

Compiling 1 file (.ex)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Identifier Length => 3

Maximum No of Hops => 3

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Shashanks-MacBook-Pro:tapestry sbantakal$

**Bonus - How to run the project:**

* Navigate to the project folder, **cd project3\_bonus**
* Use the following command to run the project.
  + mix run proj3.exs numofnodes noofrequests percent
    - numofnodes: no of nodes to be created
    - noofrequests: no of messages to be sent from each node
    - percent: percentage of nodes to be marked as failed

Shashanks-MacBook-Pro:tapestry\_bonus sbantakal$ **mix run proj3.exs 1000 5 5**

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\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Identifier Length => 3

No of nodes marked Failed => 50

Maximum No of Hops => 3

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Shashanks-MacBook-Pro:tapestry\_bonus sbantakal$

Largest Network managed: **10000** nodes

Shashanks-MacBook-Pro:tapestry\_bonus sbantakal$ **mix run proj3.exs 10000 5 5**

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Identifier Length => 4

No of nodes marked Failed => 500

Maximum No of Hops => 4

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