**Project#2**

(Total Points: 15)

Due Date: 11/18/2019 (End of the day)

No extension for any reason

**Do the following with graph dataset mentioned below (***only map-reduce code acceptable***):**

**Introduction:**

1. Dataset is of directed graph.

2. Data location: /data/graph

3. Sample Data : data/graph/sample.txt

4. There might be noise in the dataset.

5. Line in the data file starting with # should be ignored.

6. Do not include sample.txt in the final processing.

**Task**:

1. Read the directed graph data, make it undirected.

2. Create adjacency list for the directed graph.

3. Create adjacency list for the undirected graph.

4. Find the longest adjacency list in directed and undirected graph.

5. Find the node with maximum and minimum connectivity.

**How to submit your work:**

1. Write map-reduce code to complete the above mentioned task.
2. Upload the code used in process to blackboard.
3. Upload the result file with output of step 4 and 5 in the Task section.