

# DS256

## Assignment-1

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### 1 Report

I have written Page Rank in Spark. The Idea of Page Rank is taken from the official github page of Spark[1].

The Spark-pagerank is run for tiny\_graph and cit-patent.

I have written Page Rank in Giraph. For Giraph the input files were edgelists, which is not currently present in edge input formats. So I implimented custom input format class, and it is working on the edgelist format.

The giraph-pagerank is run for tiny\_graph and cit-patent.

Weakly connected components is also implimented the idea of it is taken from [2].

### References

- [1] Apache. Apache-spark. <https://github.com/apache/spark>, 2013.
- [2] Sherif Sakr, Faisal Moeen Orakzai, Ibrahim Abdelaziz, and Zuhair Khayyat. *Large-scale graph processing using Apache Giraph*. Springer, 2016.