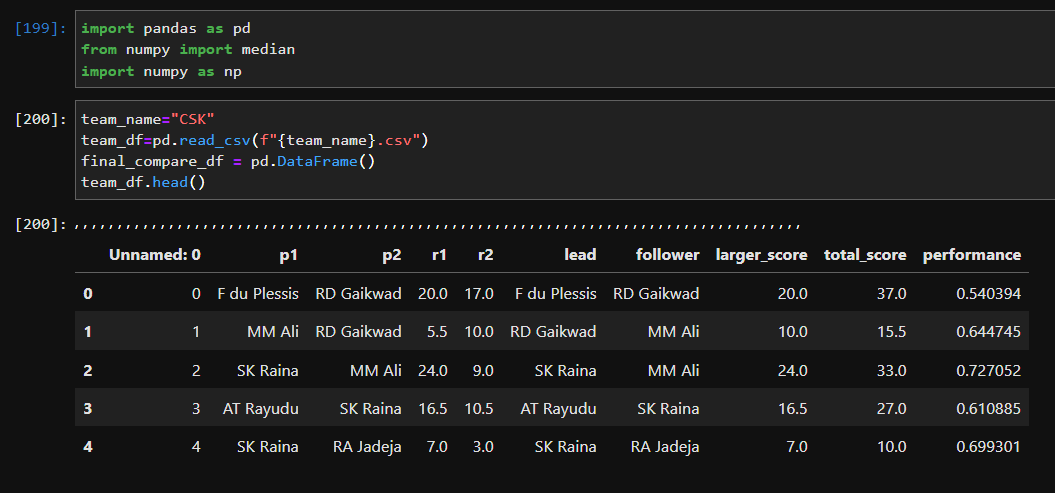
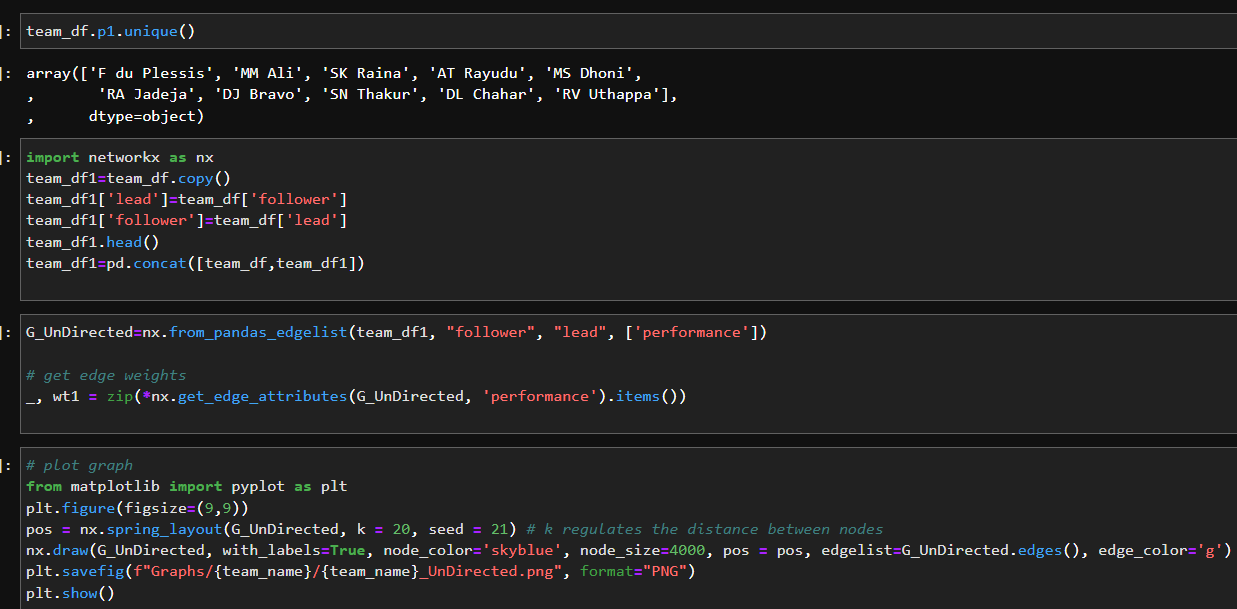
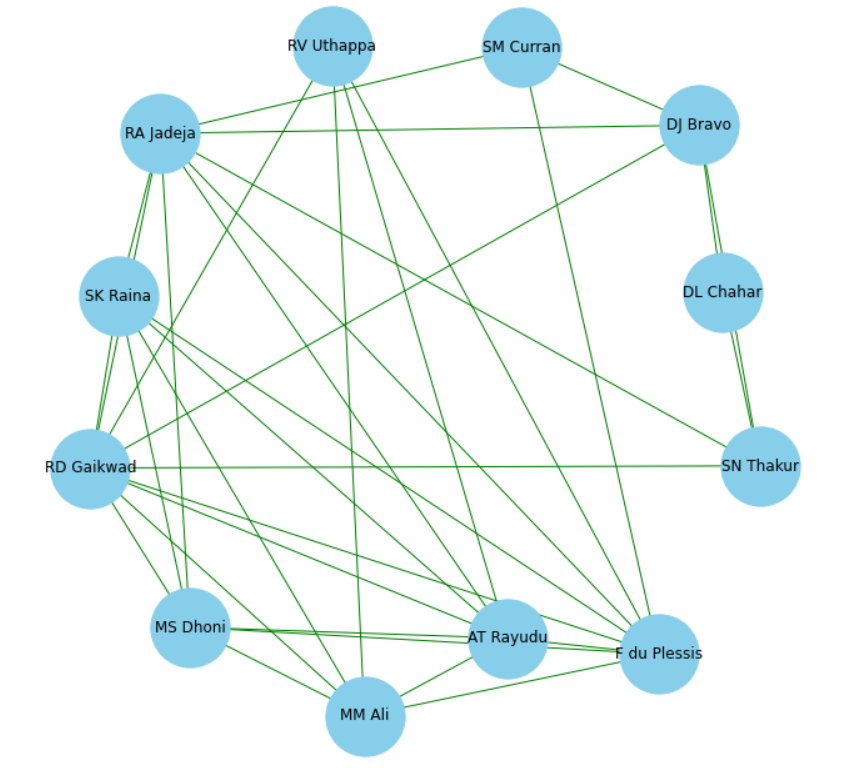
**CSK**

**Pre-processing of dataset:**

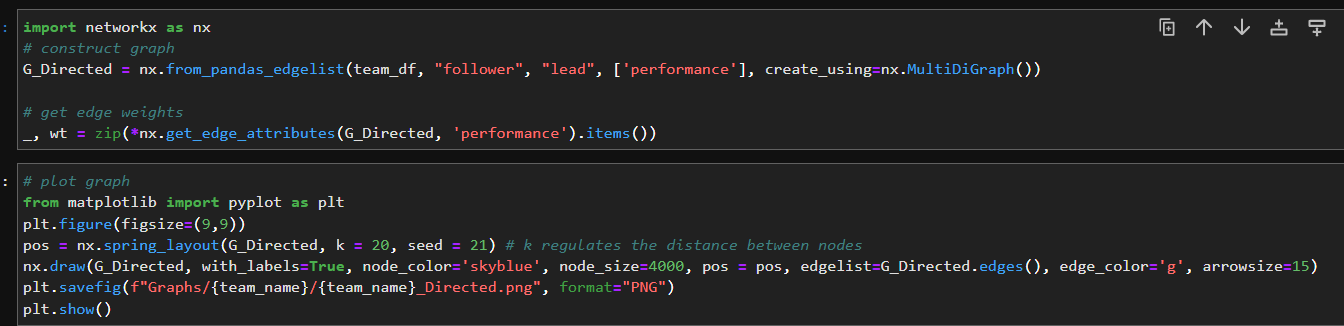
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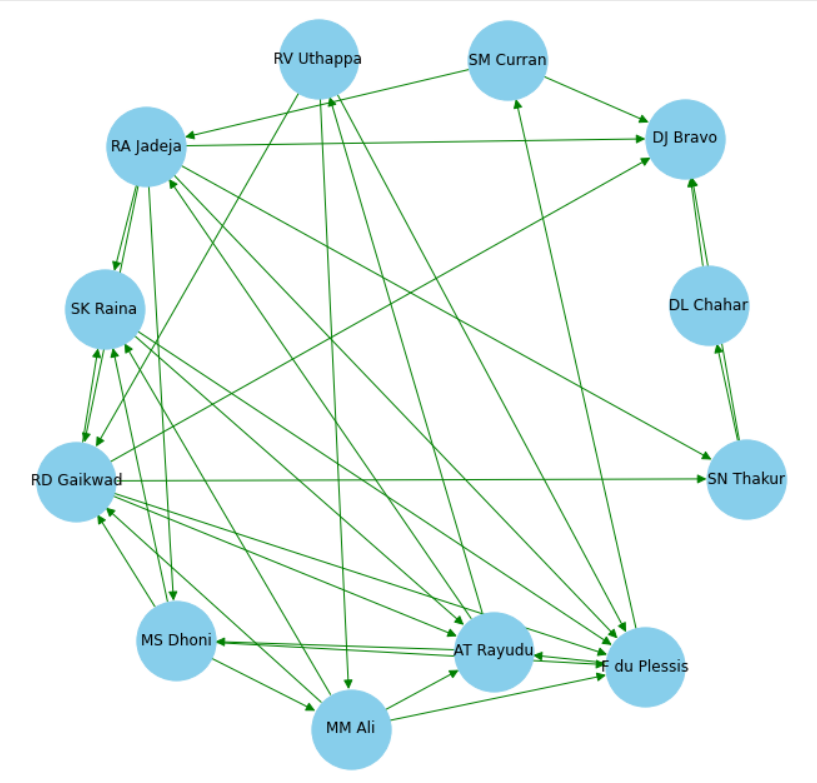
**Creating undirected graph from the csv file**

****

****

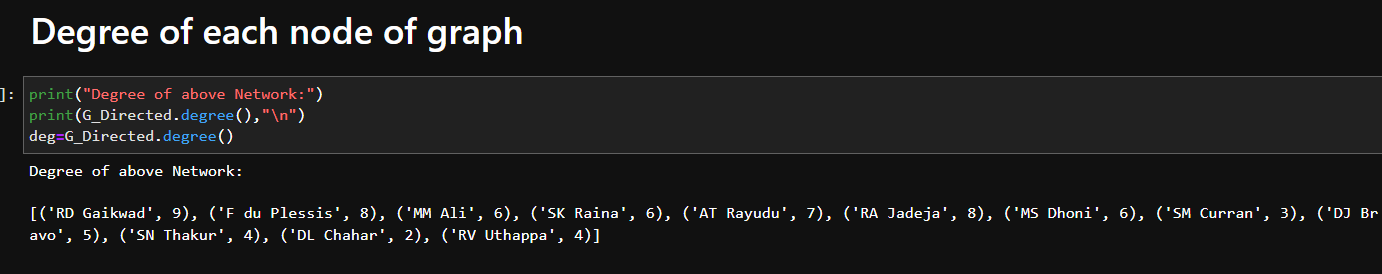
**Creating directed graph from csv file**

****

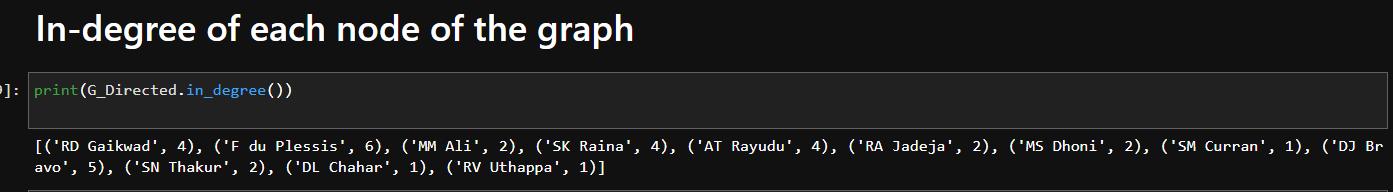
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**Measures:**

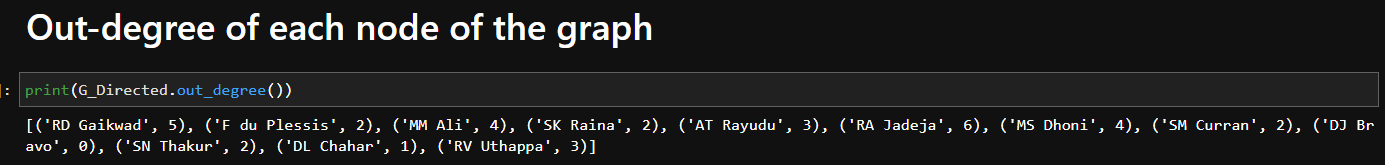
**Degree of each node of graph**

****

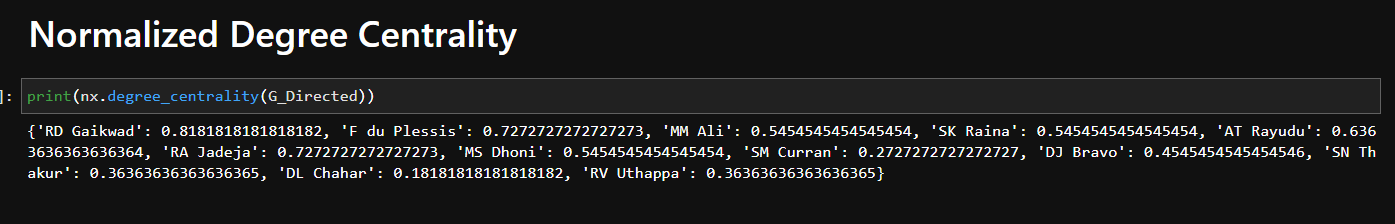
**In-degree of each node of the graph**

****

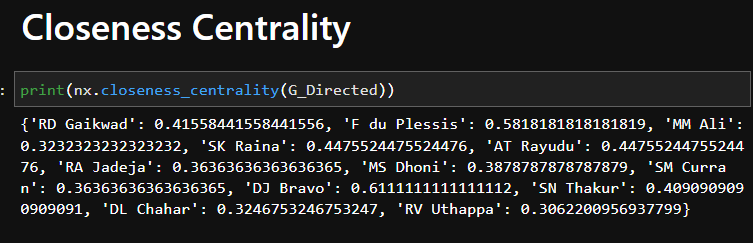
**Out-degree of each node of the graph:**

****

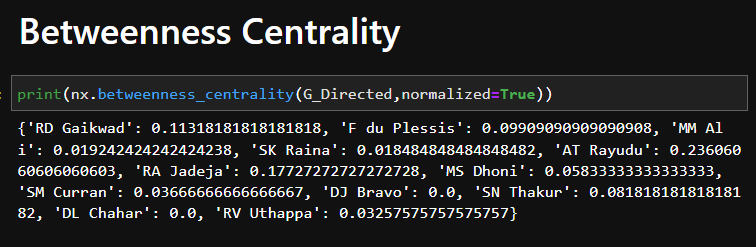
**Normalized Degree Centrality:**

****

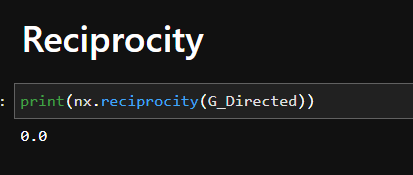
**Closeness Centrality:**

****

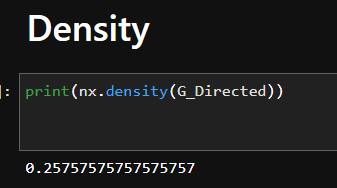
**Betweenness Centrality:**

****

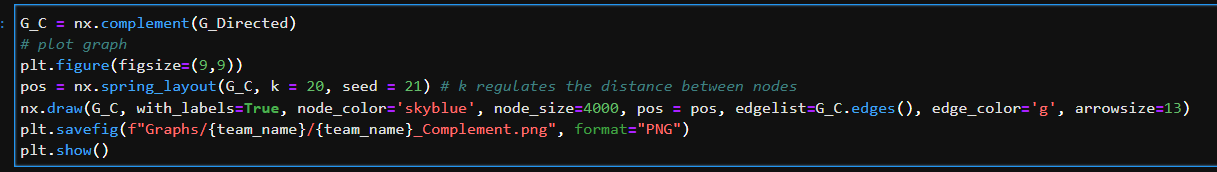
**Reciprocity:**

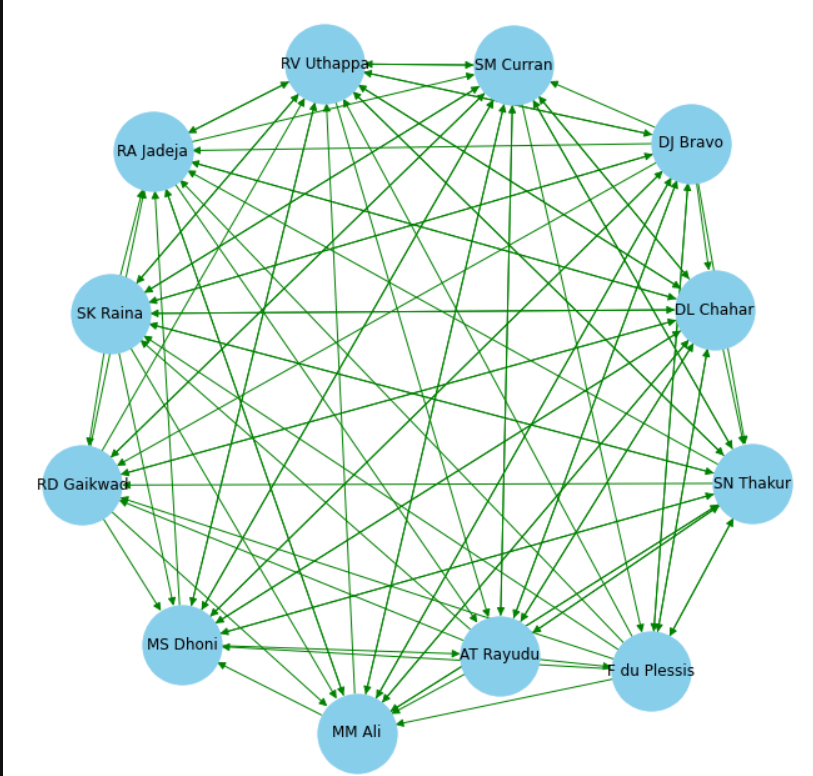
****

**Density:**

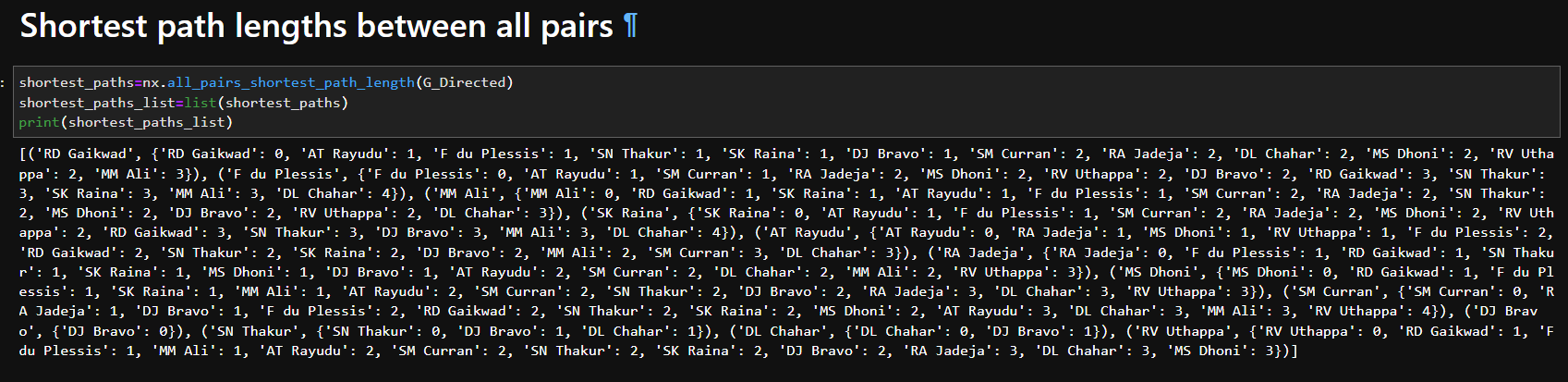
****

**Complement of a graph (Graph Visualization):**

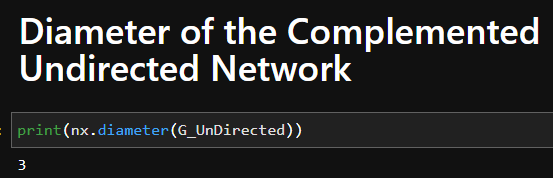
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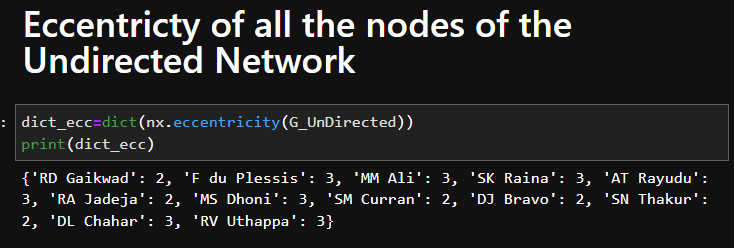
**Shortest path lengths between all pairs:**

****

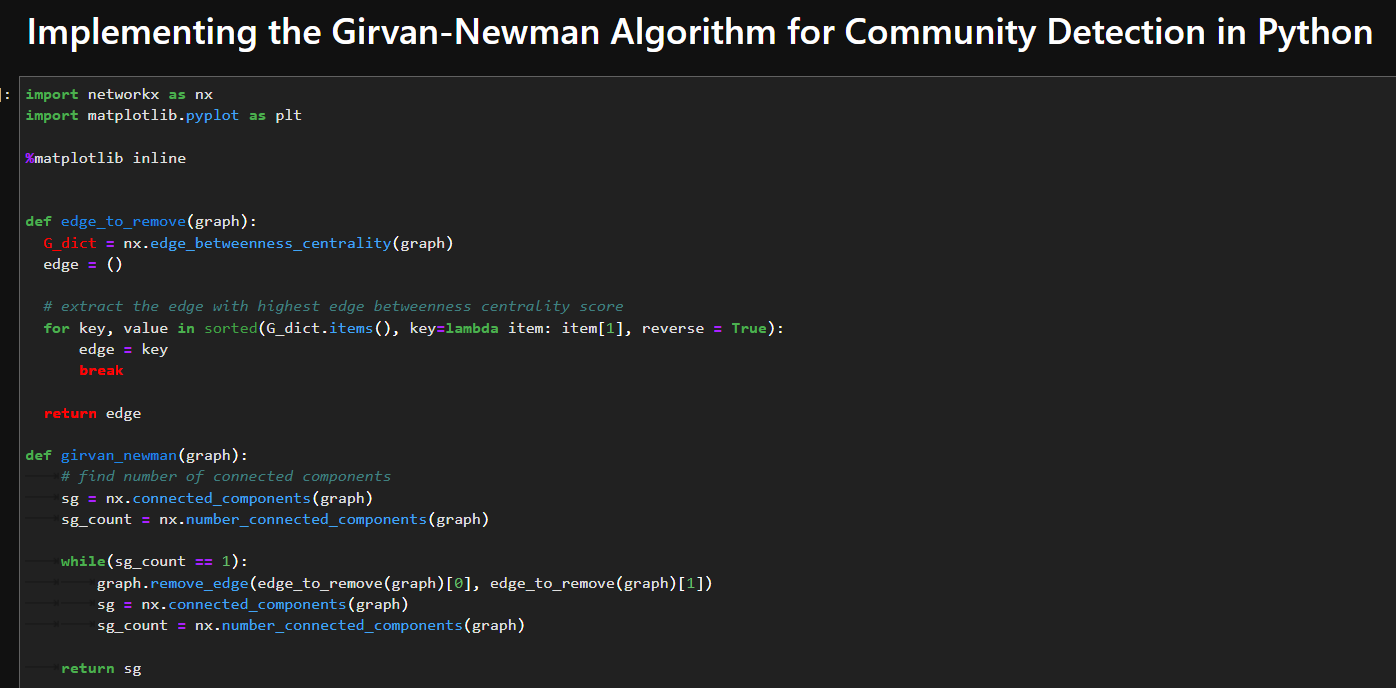
**Diameter of the graph:**

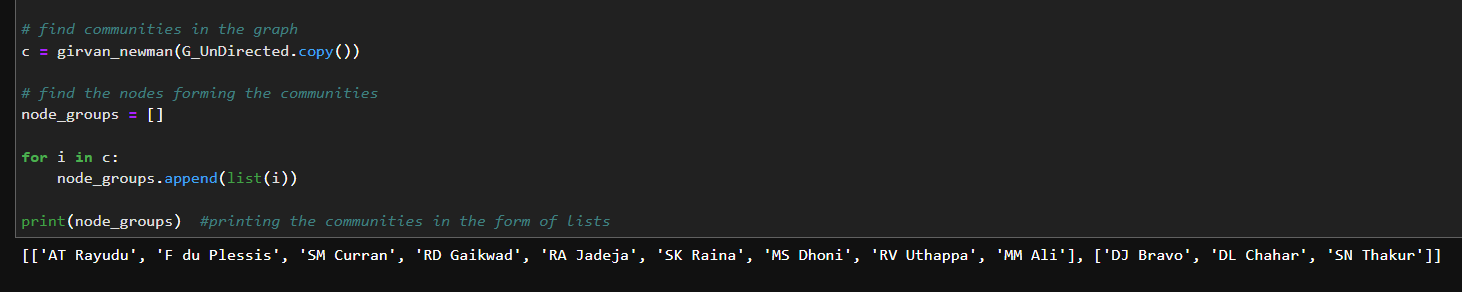
****

**Eccentricity of all the nodes of the graph:**

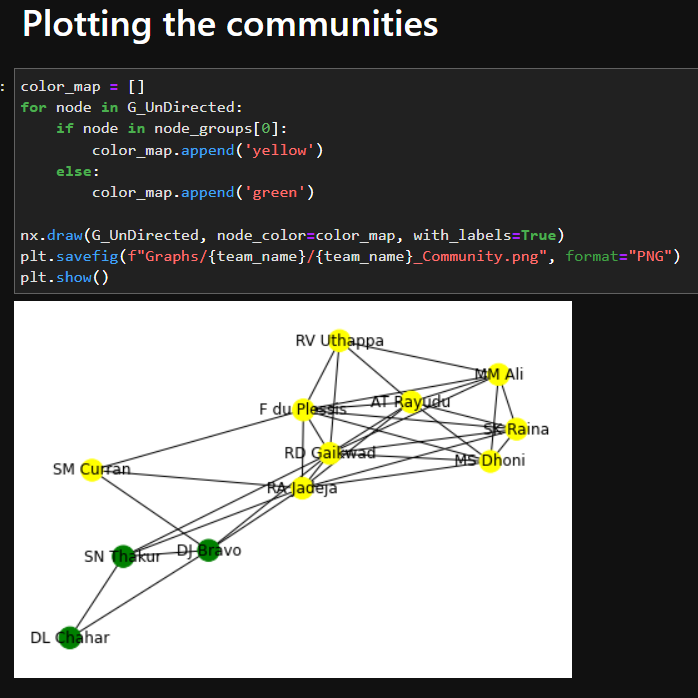
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**Implementing the Girvan-Newman Algorithm for Community Detection in Python:**

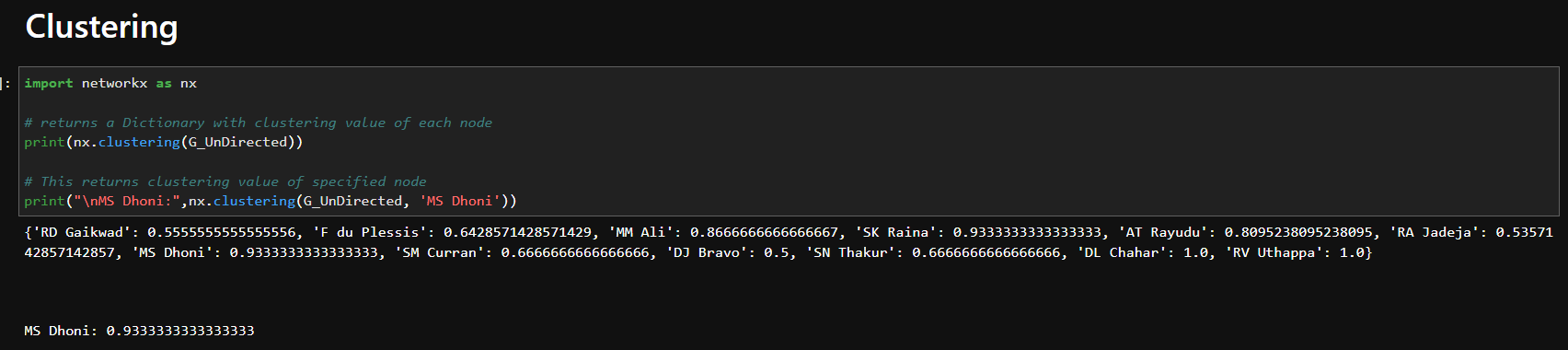
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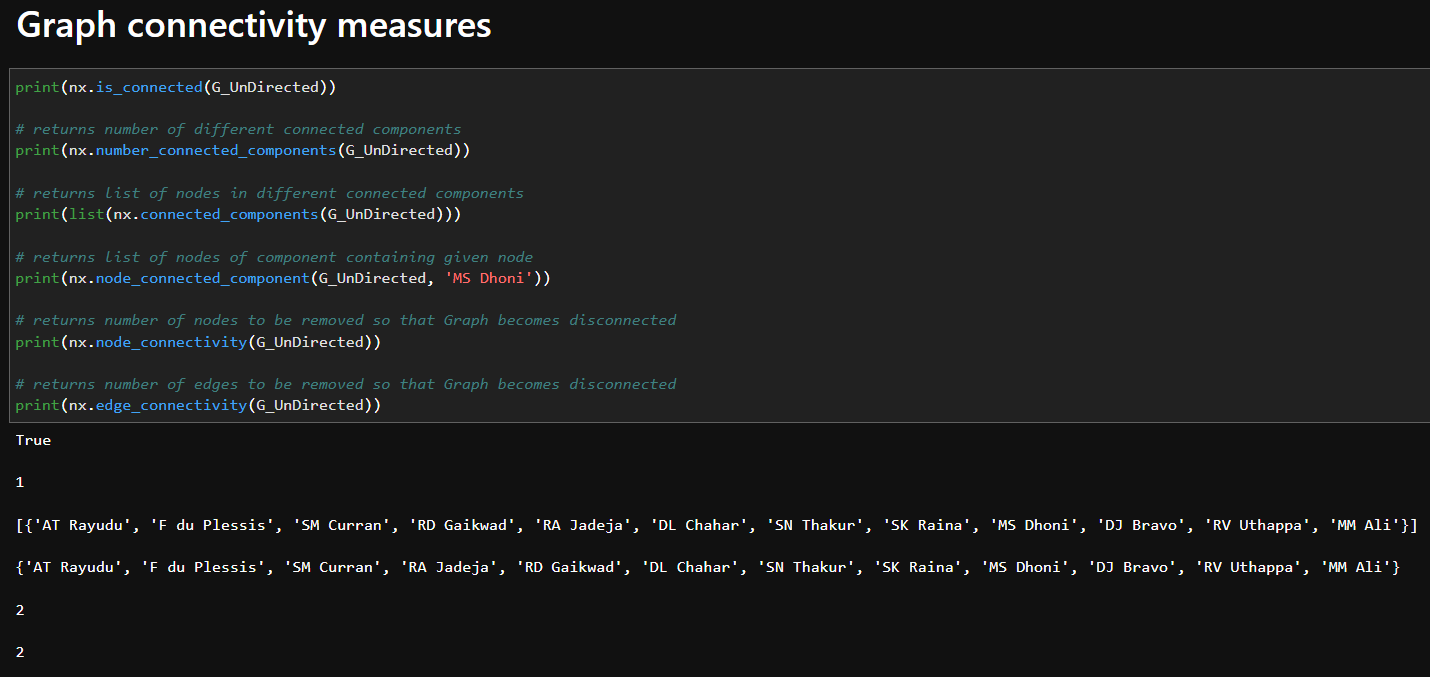
**Plotting the Communities:**

****

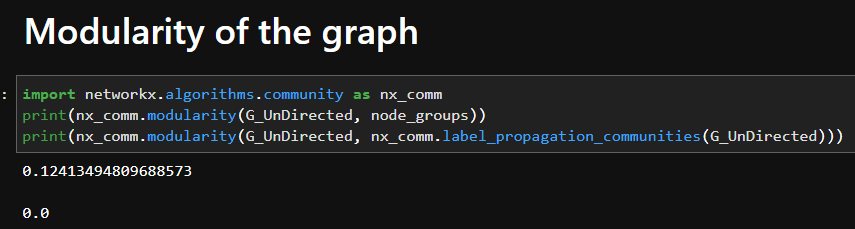
**Clustering:**

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**Graph connectivity measures:**

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**Modularity of the graph:**

****

**PageRank:**

****