D3js v4 - Graph Visualization

Project 2 by Abrar Jahin

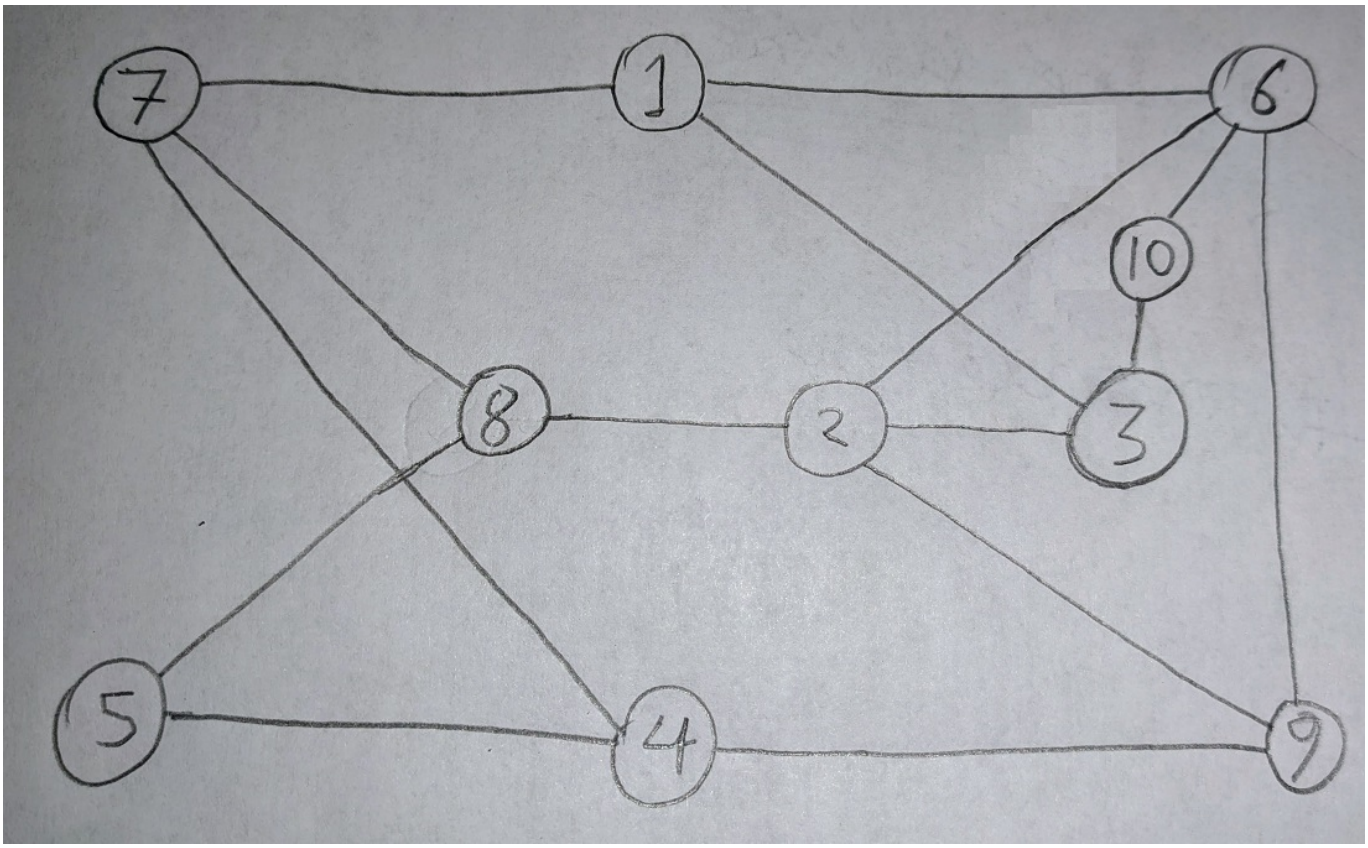
All work tasklist can be found in here and code can be found in here.

The adjacency matrix is looking like this-

	1	2	3	4	5	6	7	8	9	10
1	0	0	1	0	0	1	1	0	0	0
2	0	0	1	0	0	1	0	1	1	0
3	1	1	0	0	0	0	0	0	0	1
4	0	0	0	0	1	0	1	0	1	0
5	0	0	0	1	0	0	0	1	0	0
6	1	1	0	0	0	0	0	0	1	1
7	1	0	0	1	0	0	0	1	0	0
8	0	1	0	0	1	0	1	0	0	0
9	0	1	0	1	0	1	0	0	0	0
10	0	0	1	0	0	1	0	0	0	0

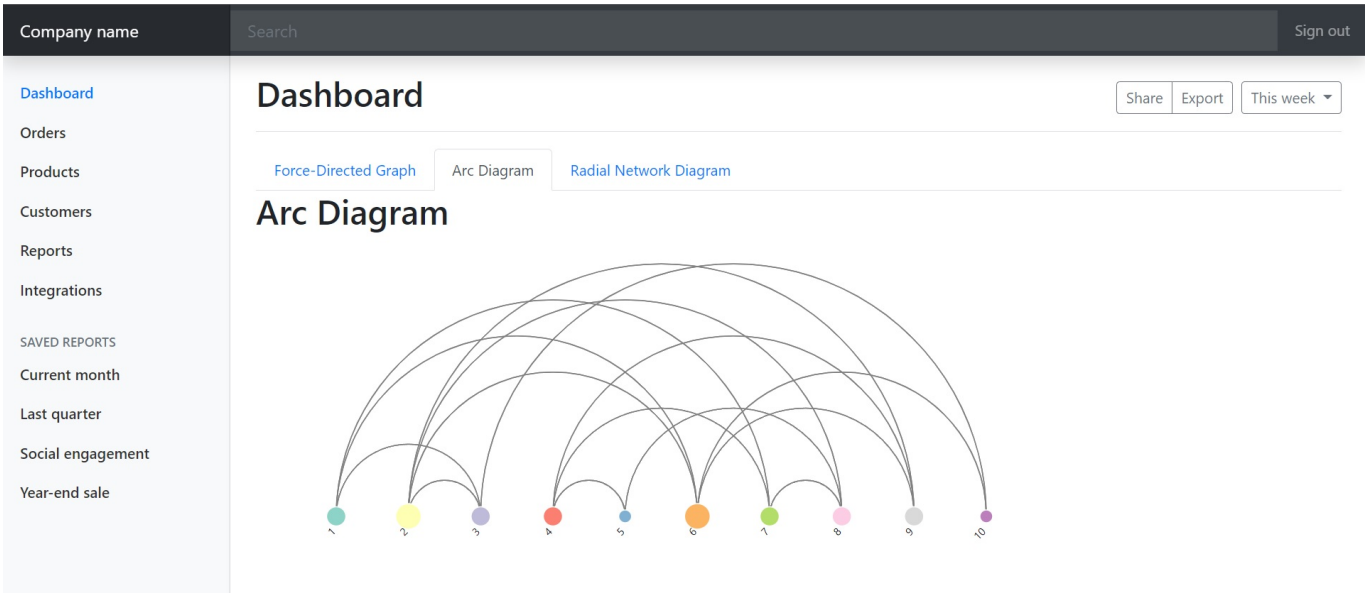
Manual Drawing

Hand drawn graph from the adjacency matrix is like this-



The dashboard is looking like this-

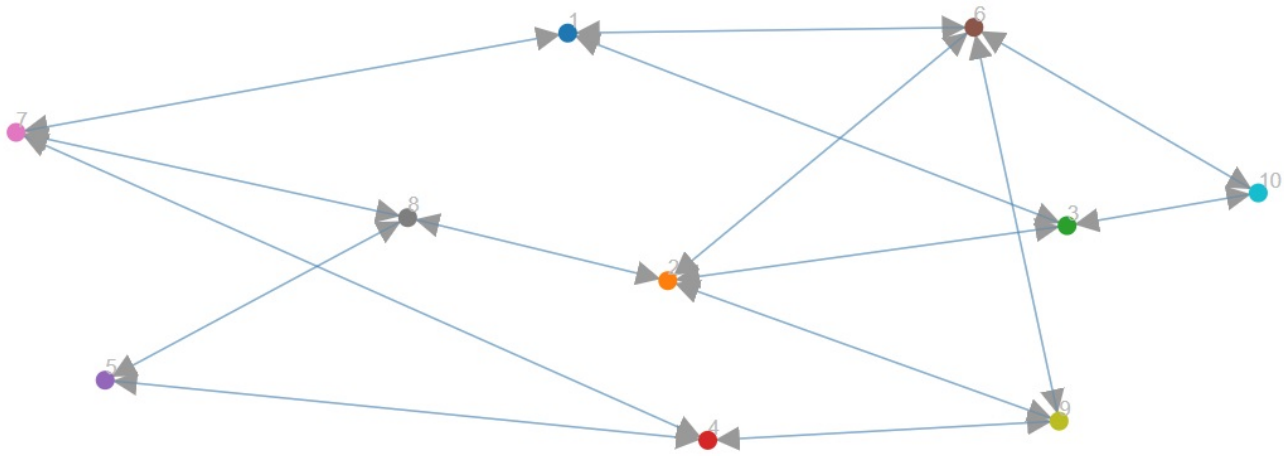
Dasbboard



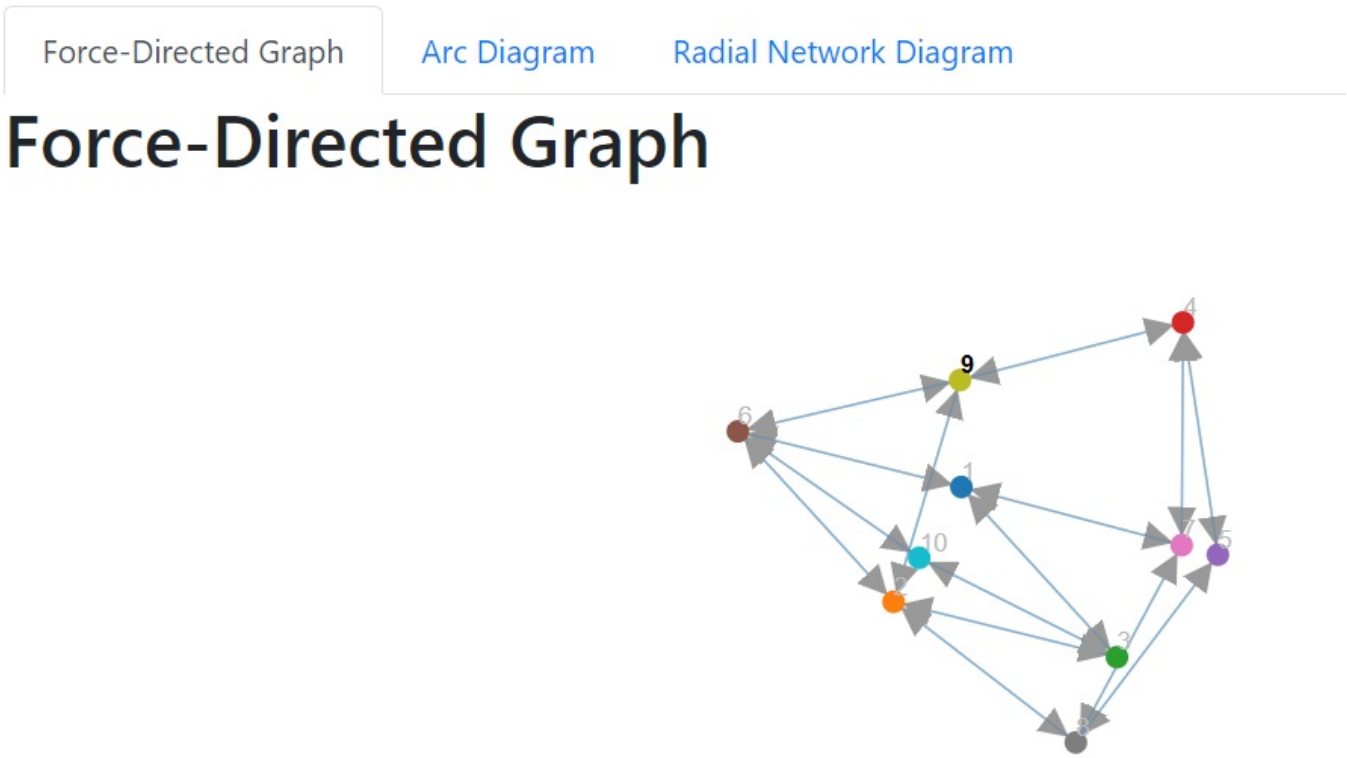
where different components can be switched from tab and every component is interactable. The 3 components are-

1. Force Directed Graph

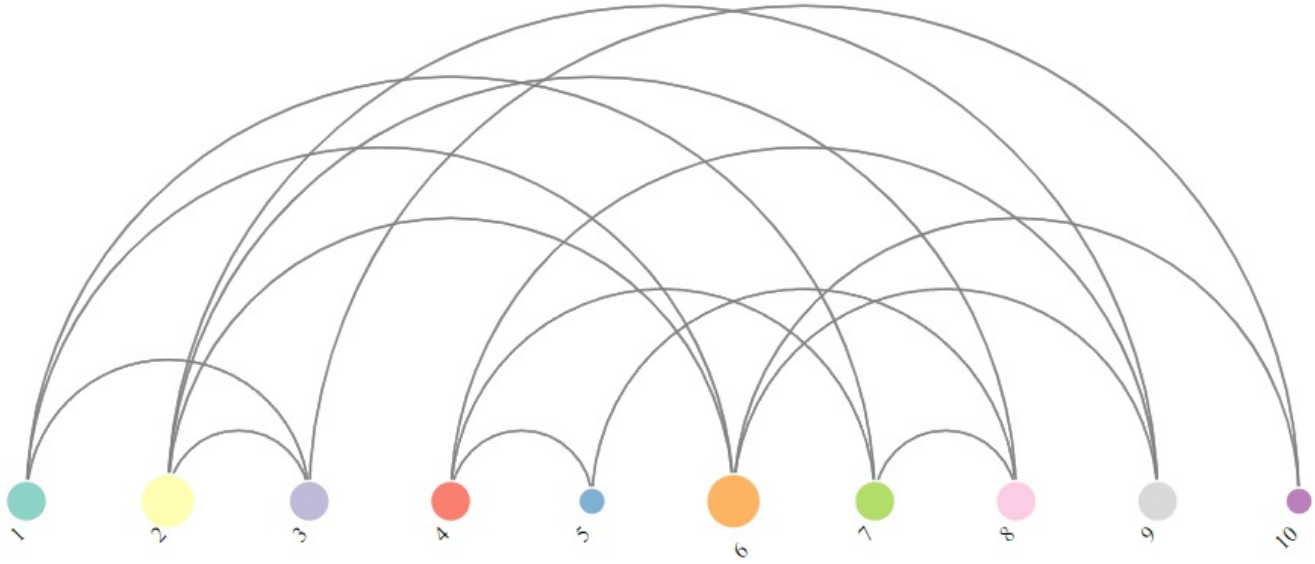
I am doing it as a directed graph with a direction from source to destination.



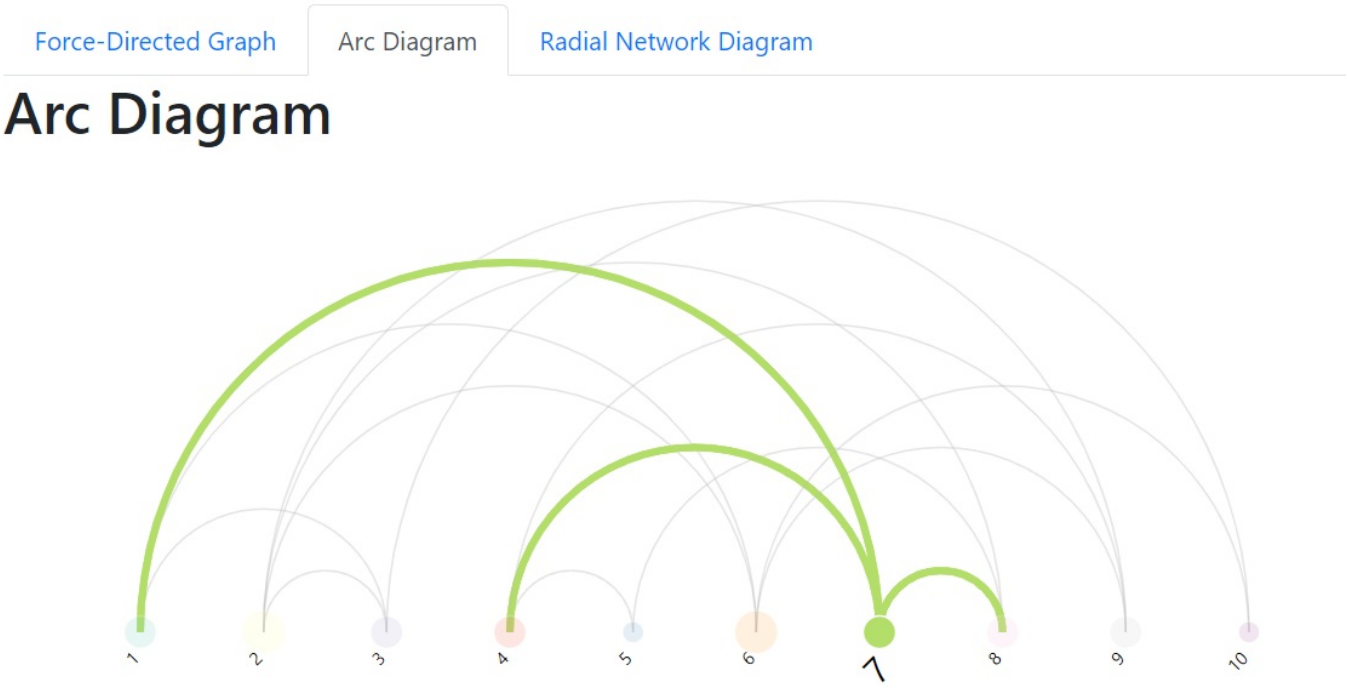
And the graph is self adjustable and interactable. The node names are also hoverable like this-



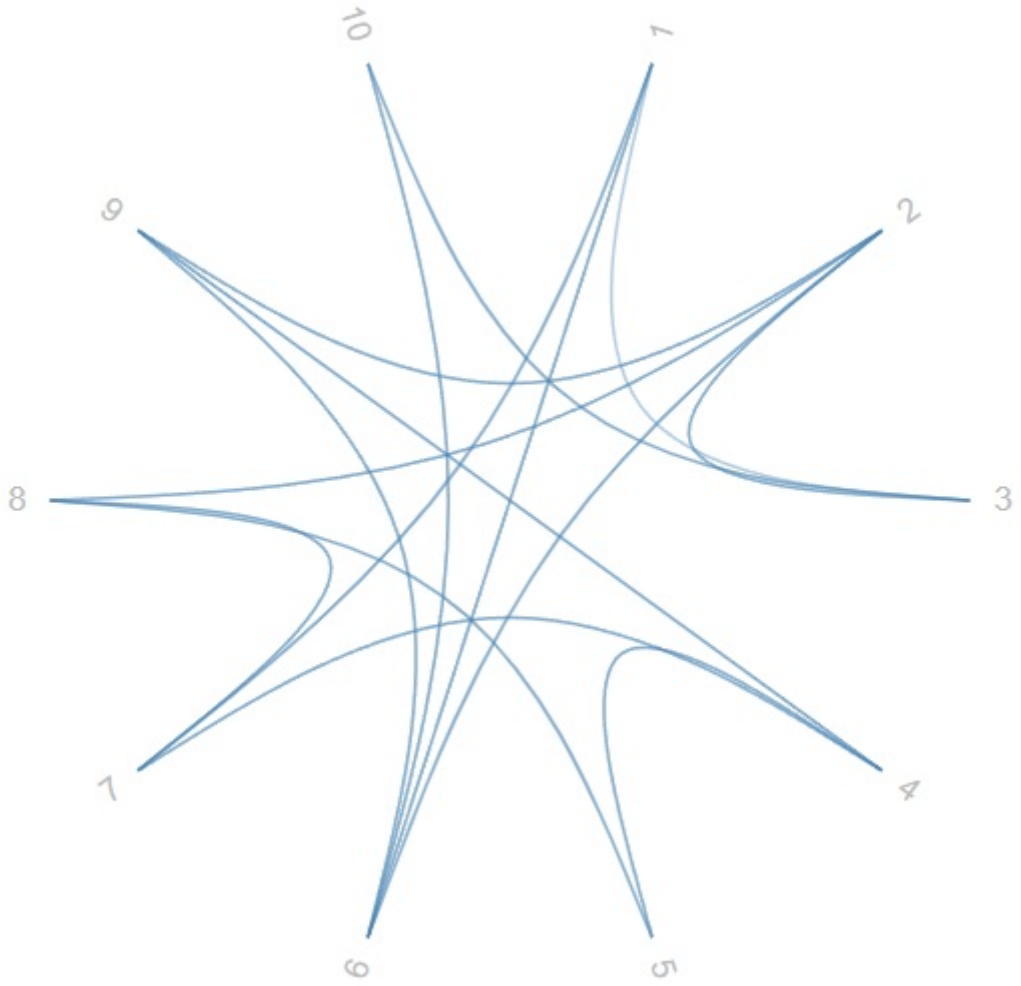
2. Arc Diagram Graph



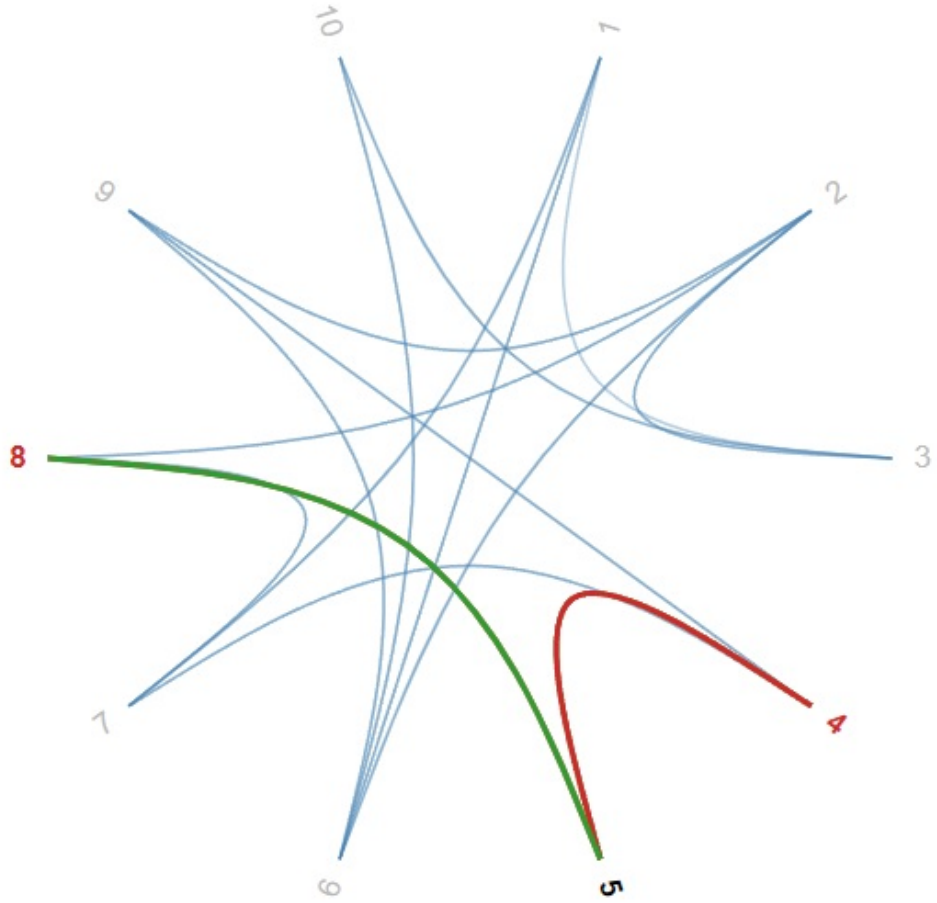
The arcs are hoverable and interactable like this-



3. Radial Network Diagram Gaph



And after hovering any item, the graph is looking like this-

Force-Directed Graph | Arc Diagram | Radial Network Diagram

Radial Network Diagram