## Assignment No:6

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	Title: Implement Bully of ting algorithm For leader election.		
	Theory:		
	Explain peed of election in a network.  The goal of leader flection is to give a specific entity (such as a process host, thread, object of person) special powers within a distributed system.  These powers may include a ability to		
•	delegate tasks the ability to modify data, or the responsibility for handling all system requests.		
•	· Leader election can be useful tool for improving efficiency, minimizing cooledination Simplifying architectures, f reducing overhead but it can also immoduce additional failure modes of scaling challenges of make it more difficult to assess the validity of the system.		
2) →	Difference between Bully & Ring algarithm.		
	Bully algorithm Ring algorithm		
	The Buny algorithm is (1) The ting algorithm a centralized approach is a decentralized approach.		

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	Bully algarithm	Ring algorithm
	Dodes elect a leader through a series of message exchanges.	15 delected by passing a taken around the ring.
	10 node with the	(3) Fach node has a token,  When a node wants to  Initiate an election, it  Sends its token to it's  neighbour in a predeter- mined direction. In  When a node receives a  token, it checks if it  has the highest In a  becomes the leader if  it does.
)	by acknowledging their Current leadership status Or by initiating their Cun elections.  Simple to implement  C can handle failures  Of both nodes of the Jeader.	page the token to the