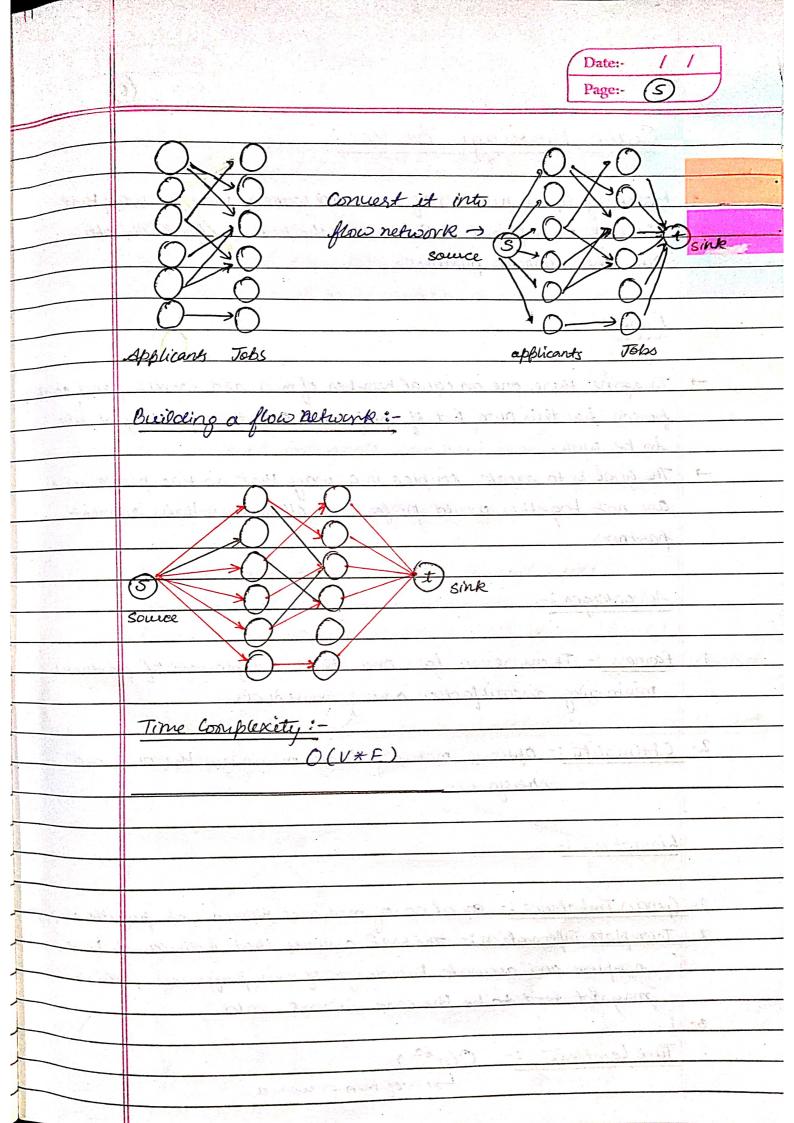
	Description of the second seco
	Bipartite Graphs
All care	A A SERVICE A SERVICE OF THE A SERVICE AS A SERVICE OF THE SERVICE
1.	A graph is a collection of nodes (or westites) and edges
	connecting these nodes.
2.	connecting these nodes. Bipartite graph are a special type of graph.
->	A sipartite is a graph whose set of nodes can be divided
	into two sets A and B.
1.027	All edges in the graph connect nodes from set A to nodes
	in set B.
→	Bipartile graphis are used in various fields, like matering
and have	problems (assigning task to workers) and network modeling
and reserve	(like social networks or transportation systems).
	is median as
-)	A map or graph is bipartite if and only if it doesn't contain any
	cycles of odd length.
	Maximum Bipartite Matching:
	100 15 OF HE CONTRACTOR
->	set of the edges chosen in such a way that no two edges
	share an end point
	Real World Problem:
	There are Mjob applicants and N job . Each applicant has a
	subset of jobs that he/she is interested in. Each job opening
	can only accept one applicant and a job applicant can be
	appointed for only one job. Find an assignment of jobs to
	applicant in such that an many applicant as possible and inch
	applicants in such that as many applicants as possible get jobs.



and control of the section of the se	
	Stable Marriage Broblem:
1.	Matching equal number of men and women in such a way that
The Table 1	there are no unpaired individuals who both prefer each other
	ouer their current partners.
	Mr. North I was a second of the second of th
	Fary:
at the state of the	Easy:
->	Timagine there are an equal number of men and women, and each.
	Imagine there are an equal number of men and women, and each person has their own eist of preferences about who they'd leke
	to be with.
-)	
	are not together would prefer each other over their current
	partners.
	Advantages:
1-	Farness: To ensures a few and steible assignment of partners.
	minimizing dissatisfaction among individuals.
	O Consideration of the Constant of the Constan
۵٠	Optimality: - Optimal matching that maximizes the over all
	satisfaction.
	himitation:
1-	Gender Imbalance: - equal no of men and women not possible always
2.	Incomplete Information: - The SMP assumes that indicularly have
	complete and accurate knowledge of their preferences, which
	may not lead to be the case in real world.
3.	
	Time Complexity: - O(n 42)
	L) no of men or women.