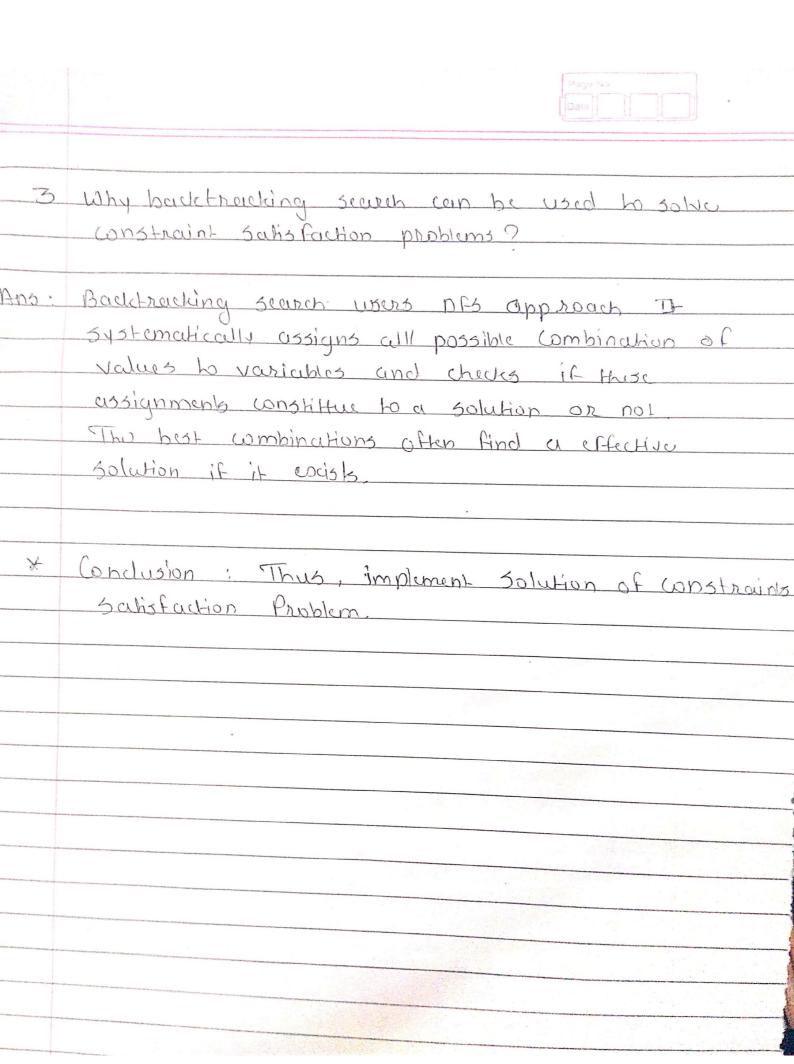
Name: Alox Bhawonker Roll: PAOG Panel: 1 AI Lab Assignment Ho: 03 * Title: Implementation of solution of constraint Satisfaction Problem like SEMP + MORE - MOHEY OR CROSS L ROPOS = DAMGER * Objective: To study constraint satisfaction method and some the problem such as SEND + MORE = MOMEY OF CROSS + PRADS = DAMGER Theory - Write in bruf. Constraint Satisfaction Method. In AI, it is the process of finding a solution to a set of constraints that imposes conditions that variables must satisfy A solution is therefore a set of values for the variables that satisfies are constraints in the Fasible region. The techniques used dened on the kind of constrain being considered often, used are constraints on a fire domains, to the point that unstraints satisfaction problems are typically identified with problem based on finite domain. 2 Back Tracking Search It is an exhaustive search algorithm up FS that Systematically assigns are possible combinations of value b vaccinis.

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	- It is complete in the sense that it is guranteer to find a solution if one esists
	the efficiency of backtracking a good recording back jumping, heuristics for variable and value or best combinations of their lesters
	result in algorithms that can routinely solve large difficult instances in reasonable amount
3	Constraint Prapagation.
	- A number of inference techniques use the constraints to infer which variable value pairs are consistence. 8 which are not.
	Thise induce pade, are, path, and te consistent using the constraints to reduce the number of legal values for a variable which in form can reduce legal values for another variables.
×	IMPUT - Trital valus for some letters in problem.
*	OUTPUT - Unique values for letters 5, E, Mb, Mo, RE,
*	Algorithm - Constraint Satisfaction method



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*	Platform - Linux
X	EAG'S
1.	What are other Constraint Satisfaction problems?
Ans:	1. Crypt Arithmetic coding alphabets to numbers 2 h-Queen (n queens should be placed in nxn Mathix such that no queen share same raw, column, diagonal) 3 Map coloning (aloning different regions of map ensuring no adjacent regions have same colors 4 (ensurand 5 Suduko (Number grid) 6 Lotte Square Problem
2	What do you mean by constraint propagation?
ans:	Constraint propagation embleds any regsoning which consist in explicitly forbidding values as combination of values for some variables of a problems because a given subset of its constraints cannot be satisfied otherwise.
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