Assignment - B3 Title: Goal Stack planning Problem Statement: - Implement goal stack planning for the following config from the blocks. Start Objective: 1) To study goal stack planning problem 2) Implement algorithm to solve goal stack planning. Understand the concept of goal stack planning Sho reg. 4 H/W reg. 1-1) Python 3 2) 64-bit OS 3) 4GB RAM, 500 GB HOD

Paga No.

Goal Stack planning: 1) GSP breaks up a set of goal predicates into individual sub goals aftempts to solve them? individually one after another. e) This is also called linear planning 3) It works by pushing the goal description onto a stack. 4) It pushes both the conjunct as well as each of the individual goal prodicates seperately. of the algorithms pop the element solo on top of the stack. 6) If it is a (goal) predicate that is tore in the crevient state and the nothing is done of the next element is popped from the stack 5) It it is a goal predicate that is not in avvient state a relevant a ction visi pushed: Chate The stack sollowed by the preconditions, first the confinctions of then the individual preconditions. 1. 8) The precondition on typ of the stack becomes the next subgoal to be addressed recursively

Page No. Date Algorithm: - Grsp (given state, goal state 1) State < given state 2) Plan 2 6) merely that loc 3) Stack & empty stack 42 Push set Cgiven good Stact) 1) while not empty (stack 6) do n < pop(gtack) all result will be enactions is done 8) then plan < (plan: 11) 9) Stack eprogress (N, State) 10) else it is a conjunct of
11)

Hen solved Plag time Alamayor Afortheach qcc 13) 10 9 1 go inddopuit ge state 14) done solvedflegerale 18) How of Solved Plag = FALSE 16) Hen Rush Jet (C, Stack) 17) to else it a tigivenstate 18) Hen chouse action that achieve x 19) of norsuch actor exist 20) Hen veturn RAISE 21) POSM Carstack) 22) . Push Set (Becondinos (a) stack) 13) retwin & Planation of Conclusion: - The have successfully simplemented Goal stack planning