

Date ___ /___ /__ Assignment - B3 * Title: - Goal stack Planning Problem statement - Implement good stack planning anfiguration from the blocks world. D Objectives :-· To leasn and undesistand concept of goal stack planning To study need and real time use of goal stack planning. To implement goal stack planning algorithm using suitable programming language. Outromer: students will be able to:-· learn the concept of goal stack planning. · study need and use of goal stack planning. · Implement goal stack planning & SW and HW Requirements: · Ubuntu | Fodosa 20. Draw JDK | Afthon libraries / Avolog. • 498 RAM , 560 98 - Editor a gedit one of the earliest techniques in planning using goal stack. Problem



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	solver uses single stack that contains:
	• subgoals and operates both.
	· subgoals are solved linearly and then finally the cajoined
	· subgoal is solved.
A 1 A 1 1 1	plans generated by this method will contain complete sequence
	of oppostunities for colving one goal followed by omplete
	requence of operations for the next etc.
-	Roblem Solver relies on:
	. A database that describes the current situation.
	· set of operators with pre-condition, and & delete lists.
s)	let us assume that goal to be satisfied is:
	GOAL = GI + G2 + G3 + + GN.
^, , !	(1 A
1 .	subgoals 61, 62, 63 are stacked with compound goal 614 624 631
	Gy 1 GN at the bottom.
Sko	Algorithm
	1) Find an operator that contisfies subgoal as (makes it time)
	and replace Col by the operator.
* - I	1) If more than one operator satisfies subgoals then
	apply some houristic to chance one.
	The comment of which have been a second to the comment of the comm
	2) In order to exercise the top most operation; its
	- preconditions are added into the stack.
	1) once the precondition of an operator are satisfied then
	we guaranteed that operator can be applied to produce
	a new state.
instacts of	2) New state is obtained by using ADD and AELETE
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	lists of an operator to existing database.
3)	Problem solver keeps track of operations applied. Dynis process is continued till the goal stack is empty & solver returns plan of the problem.
	Consider given example: Initial state: DN (B,A) ^ ONT (c) LONT (A) I ONT (b) L CL(B) ^ (L(c)) ^ (L(0) ^ AE.
	ON ((A) I ON (B,D) I ONT (A) I ONT (B) I (L(C) I (L(B). LAE.
*	<u>TestCase</u> :
	B B D A C D A C Input Cuttout
*	conclusion! We successfully implemented goal stack planning in bython to implement above case.
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