	Date
	Assignment No-B3
	Title: Good Stack Planning.
	Problem Statement:
	following configuration from the blocks world
	B C B A D
	Objectives: To learn and implement goal stack planning.
	Outrame:
	Timp'ement goal stack planning.
	Software Requirements: Python3, UNIX/LINUX OS
3	Mardware Requirements: 64 bit CPU. 8GB RAM
the professional residence of the second section of the second sec	The cry-
	Block word problem is described as
	tollows: there are N blocks, a table and a robotic arm, Blocks are identified by
	integers 1. N.

Each block can sit on top of another block, or an the table; there can be a stack of blocks of arbitrary beight.

However only one block can be directly on another block. No two blocks can be sitting directly on the caree block.

The bottom-most block of a stack on must be on the table. The table can hold any number of blocks.

Jf there is no block on top of a block, then the block is clear. The robotic arm can only hold one block. If the robotic arm does not hold any block, it is empty.

GOAL STACK PLANNER.

Groal Stack Planning integrates the advantages of both forward and backward planning.

An action is added to the plan only if it preconditions are statisfied, then we add a relevent action for that precondition and push the preconditions on stack and repeat the some process.

There might be more than one relevent action for some predicates: but since Groul Stack Planning tries to choose only the relevent action starting from the goal state, the time it takes is smaller than the forward and backward planning search strategies. However, it does not always give an optimal solution.

Algorithm:

D. Purn the goal state on stack,

2) Repeat until the stack is empty.

a) If stack top is a compound goal.

i) Push its subgoals on stack.

b) If stack top is a single unsatisfied goal.

goal.

i) replace it by an action that makes it satisfied.

DIF stack tops is an action.

i) that for uncatisfied prerequisites.
ii) if all prerequisites are satisfied.

I) Pop action from stack.
II) execute it.

TTD change the knowledge base by

se.

I) push & uncaticated preconditions on stack Joal.

Pop 't from stack

Conduction:
Successfully implemented goal sout