

1) The bottom most block of a Stack My on the table. The table can hold any number of blocks. If there is no block on top then the block is clear. Vijs The robotic arm can hold only 2 block Viii) If the robotic orm does not hold any block, it is "Empty". * Goal Stack Planner: 1) Goal Stack planning integrates the advantages both forward and backward planning. action is added to the plan only in it's pre-conditions are satisfied. any precondition is not satisfied, then liis we add a relevant action for that pre-condition and push the pre-conditions on stack and repeat the same process. * Algorithm: Push the goal state on stack. 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 i) Replace it by an action makes it satisfied. the Push actions precondition

c) If stack top is an action,

i) Check for unsatisfied pre-requisites.

ii) If all prerrequisites are satisfied,

I) Pop actron from stack,

II) Execute it

Change the knowledge base by action's effect.

else

I) Push unsatisfied preconditions on stack.

d) If stack top is a satisfied goal.

i) Pop it from stack.

Condusion:

from this assignment, I was able to understand the goal stack planning and hence implement this assignment

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Stack