[In
external
to an
for an
... file. [In ea
... file, you need to
output to external file].

——— × ———

We have got some more queries regarding assignment 2
Let us fix some notations:
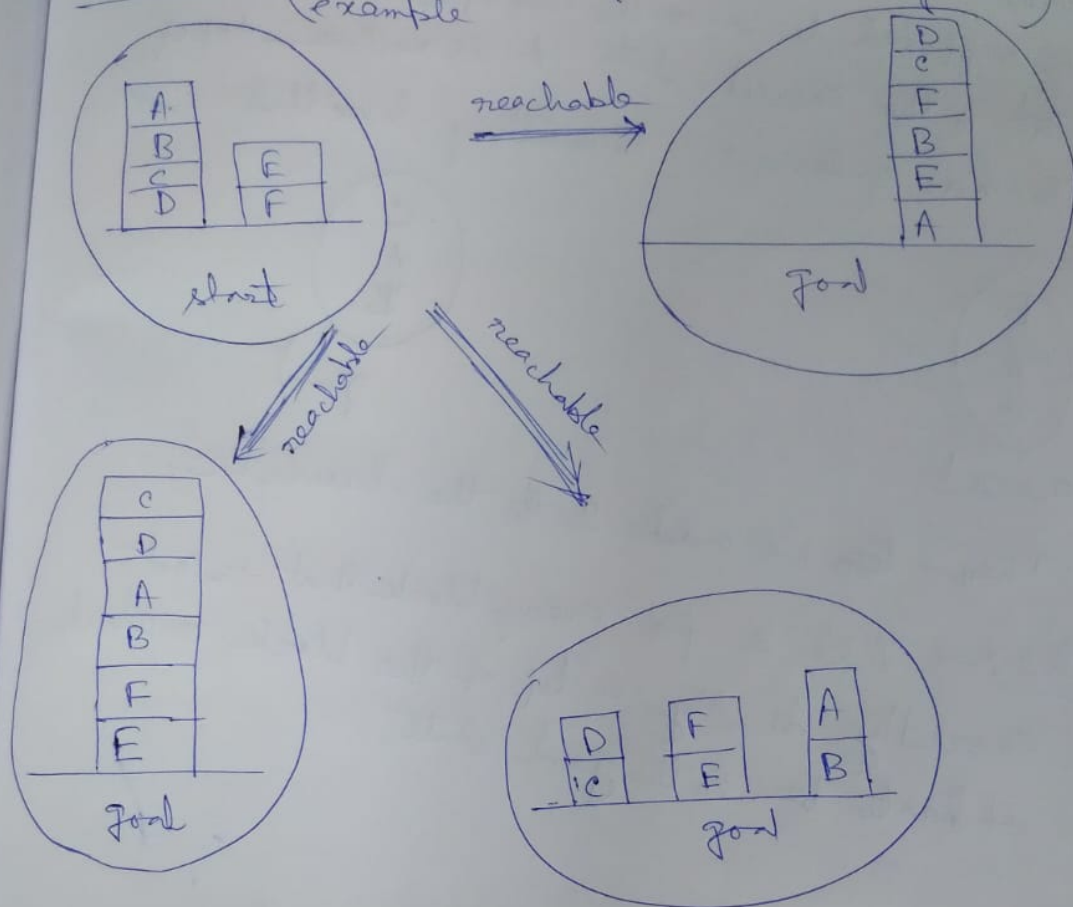Notation 1 :— Number of stacks can be used
is 3.
Notation 2 :— Let us use 6 blocks only
A, B, C, D, E, F

(Initial configuration :— You decide

final configuration :— You decide

Let us see some examples.

Example
A
B
C
D

C
D
A
B
F
E

There
Y
It
heu
Som
h1
curr
h2
st

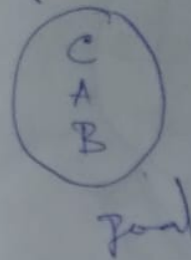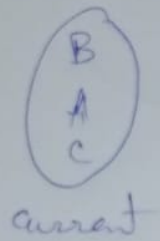## Example 1 (You can test your code using this example)

There is a catch:

You have to design (think) heuristic functions. It may happen that using your particular heuristic some goals are not reachable. B

Some heuristics (You may think on more heuristics)

h1:- Calculates the number of blocks that are currently not in the correct position.

h2:- Calculates the difference between the current state and the goal state by looking at the details of

ead block. Suppose in the goal state, block A is supposed to be on the top of B and under C. But in the current state A is neither top of B nor under C. Something like that

current

goal

Then we add 2 to the heuristic.

h3:— Add 2 for every block that is not currently directly on top of the block on which it has to be in the goal state.

h4:—

$$h4 = 2 \times (Z_1) + 4 \times (Z_2) \quad \text{where}$$

Z_1 = number of blocks that must be moved once

Z_2 = number of blocks that must be moved twice

You can design your own heuristics.

Read section 3.4 from text book

Friday - 20-Jan-2023