

UNIVERSITY OF KARACHI (UOK)

ACADEMIC YEAR-2021

DEPARTMENT OF COMPUTER SCIENCE

MORNING PROGRAMME

MCS (FINAL)- 4th SEMESTER

COURSE TITLE: "ARTIFICIAL INTELLIGENCE"

COURSE CODE: CS-616

SUBMITTED TO:

TEACHER NAME: MISS SAIMA ASHRAF

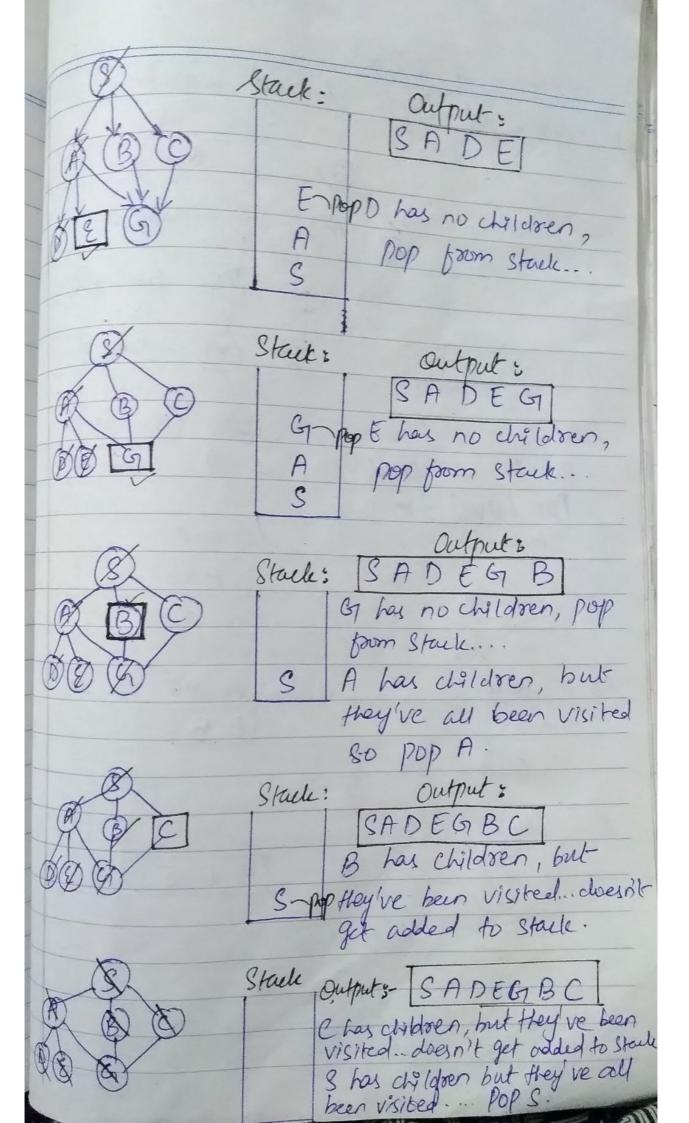
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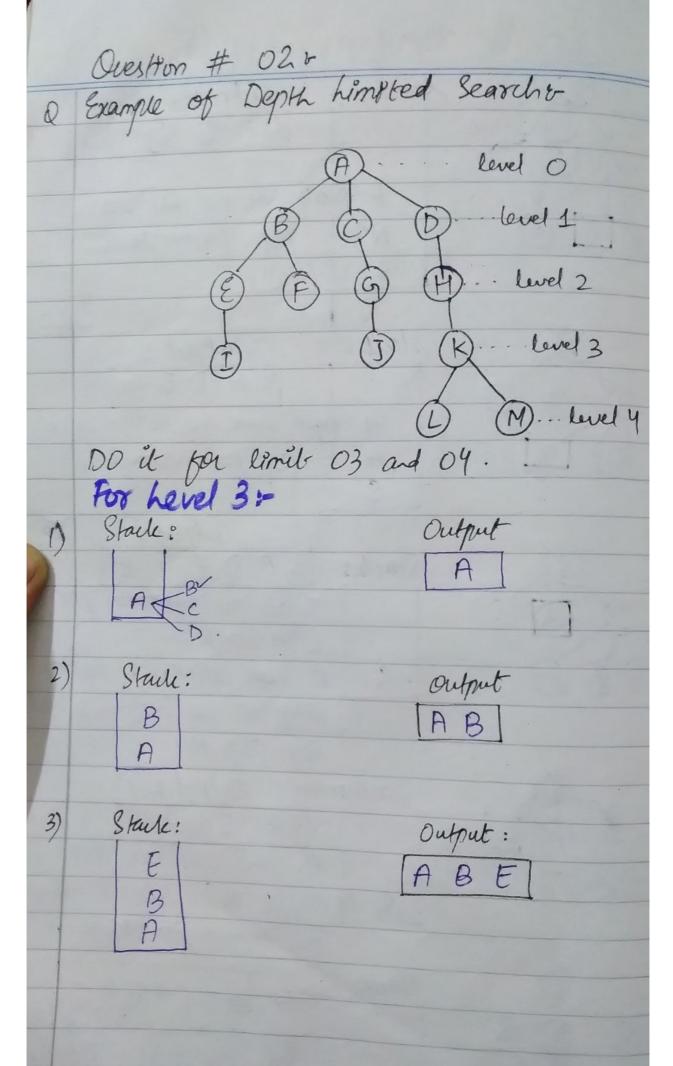
STUDENT NAME: NEHA ADIL SEAT NO: P19101049

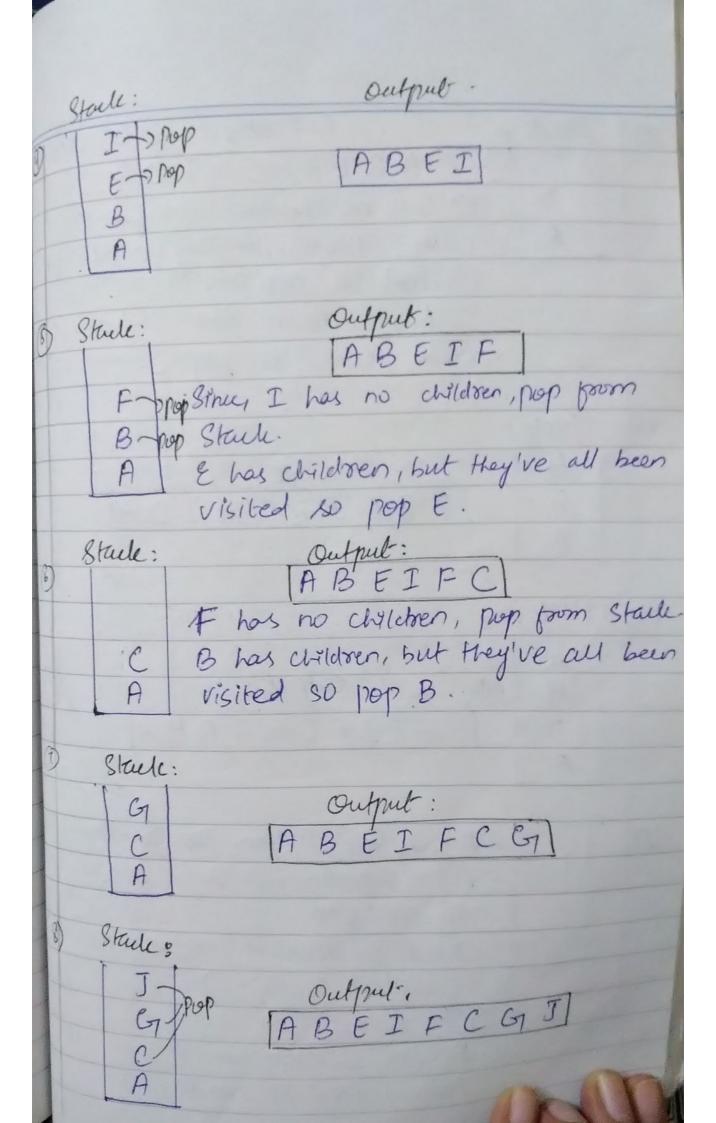
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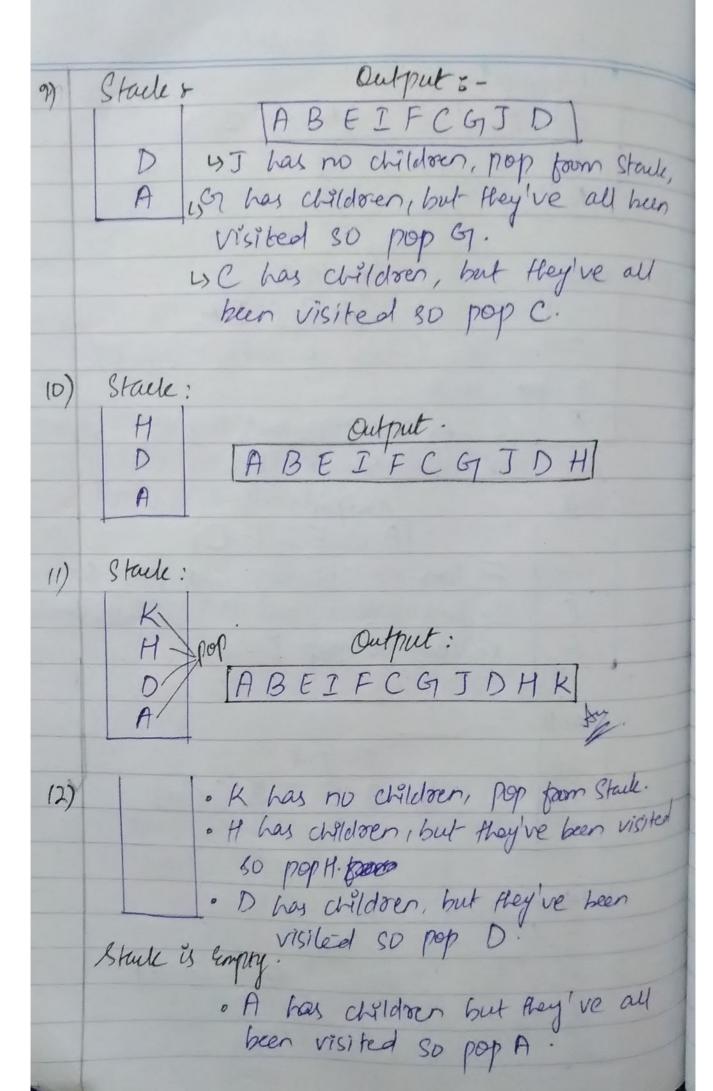
ENROLLMENT NO: SCI/DCS/KU-7276/2019

ASSIGNMENT # 02" Question # 01 2-Example of Depth First Search & Solution:-Stacks Output: 3 Stack: Output: Stack: Outputz Spop



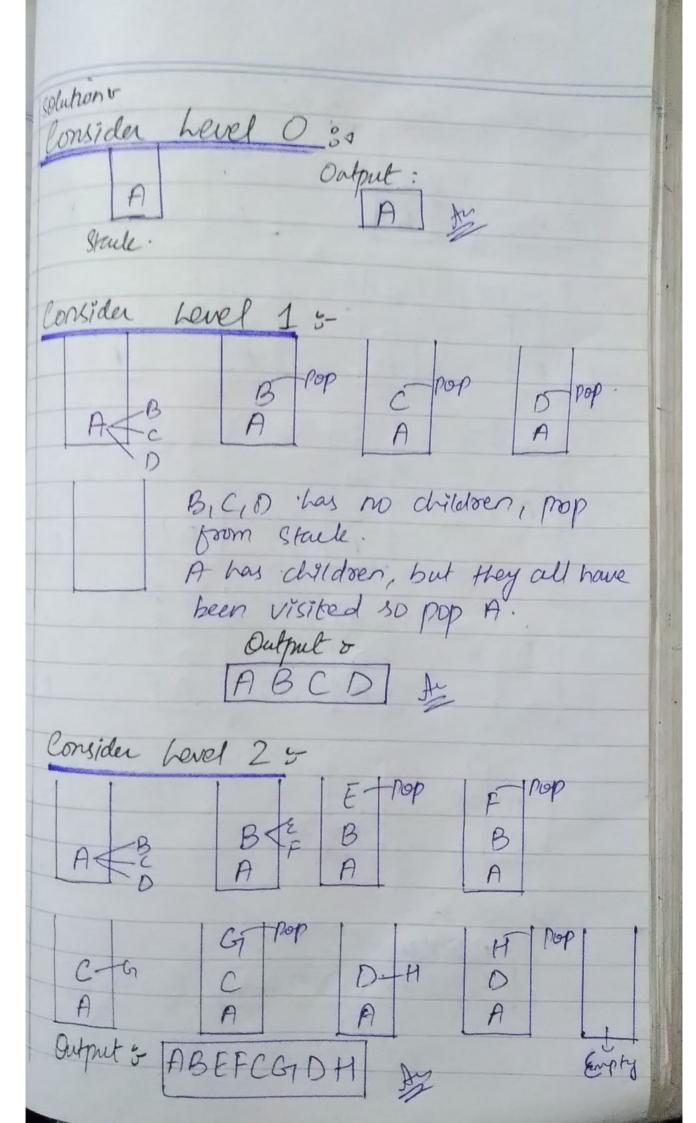


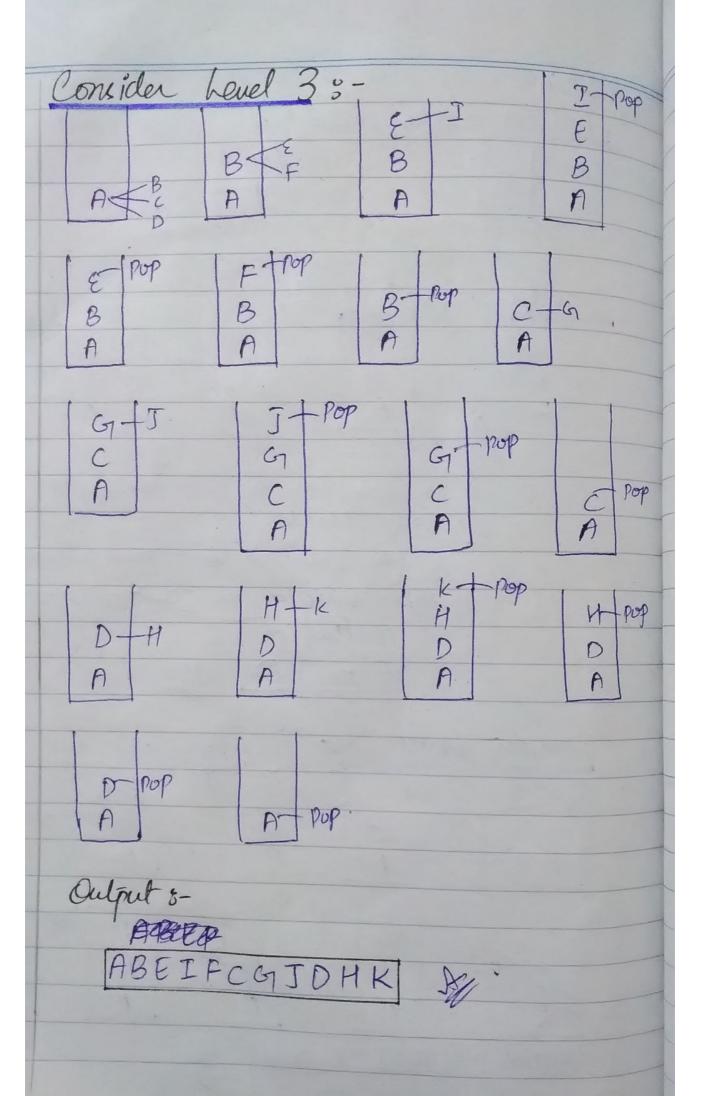


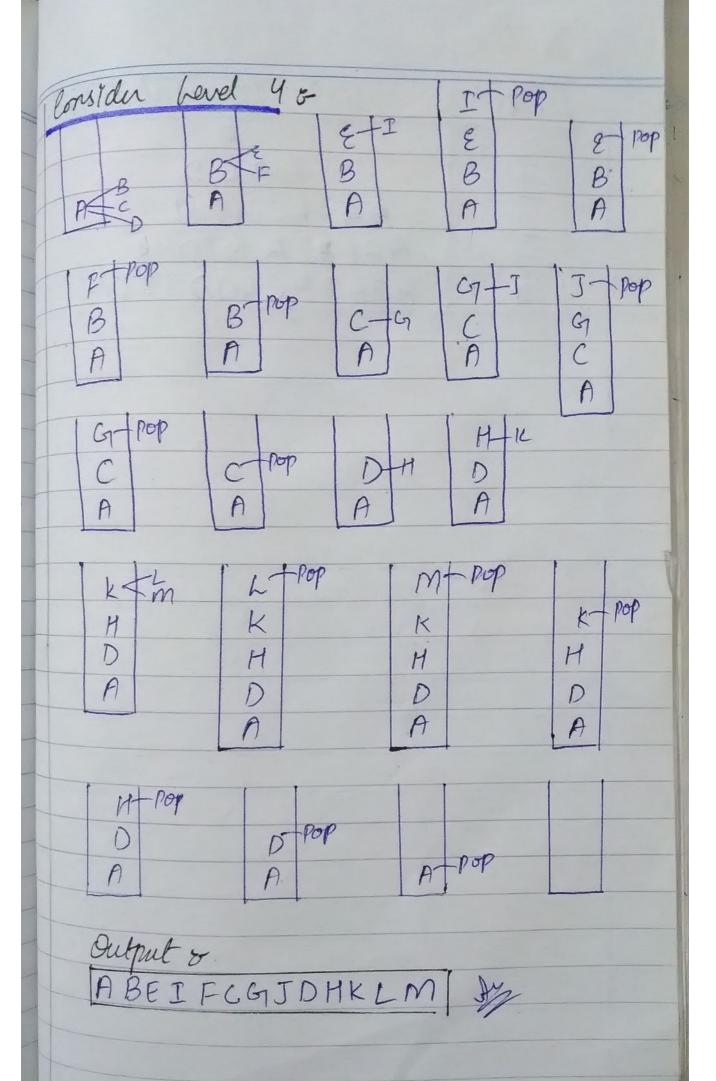


For Level 43-The Stack will be same from step # 01 to Step # 11. from Covel # 03. So we continue from slip # 11 to proceed further for level 4. 86p # 11 v Stacle Output: ABEIFCGJDHK Stacle: h pop Output: ABEIFCGJDHKL Output: Stack: ABEIFCGJOHKLMI M K L has no children, pop from stack. A

Stack: . M has no children, pop from starle . K has children, but they all have been visited so pop k. . It has children, but they've all been visited so pop H. . D has dildren but they've ay been visited so pop D. · A has children but they've all been visited so pop A Output :-ABEIFCGJDHKLM 1. Question # 030 Example of Iterative deeping Search or A)... level 0 (D. - level 3 (M) ... level 4.







	IDS Traversal Output.
hevel	
n	H
0	ABCD
1	
7	ABEFCGDH
2	ABEBIFCGJOHK
9	ABEIFCGIDHKLM
4	HISETICOLOUR