

## 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

SUBMITTED BY:

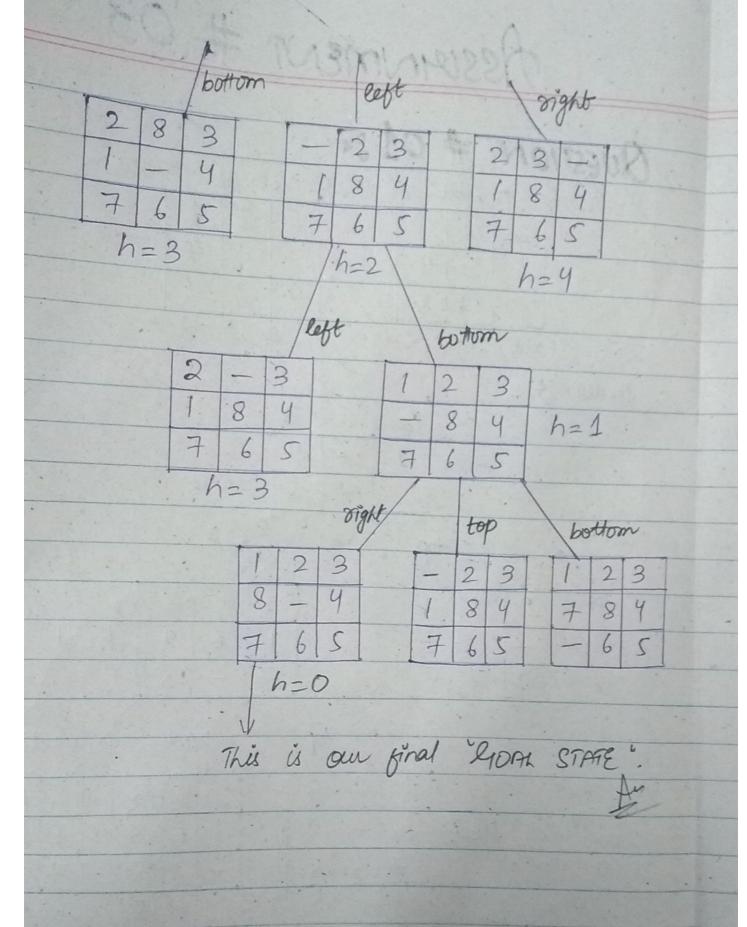
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TAIDOUATENT NO. COLOCCIVII 7270

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

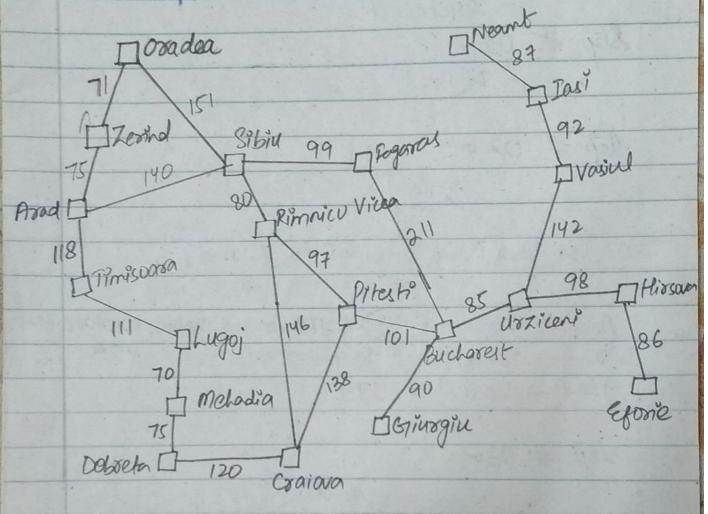
# ASSUMMENT #'03'

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#### QUESTION # 0384

### MREEDY BEST-FIRST SEARCHS

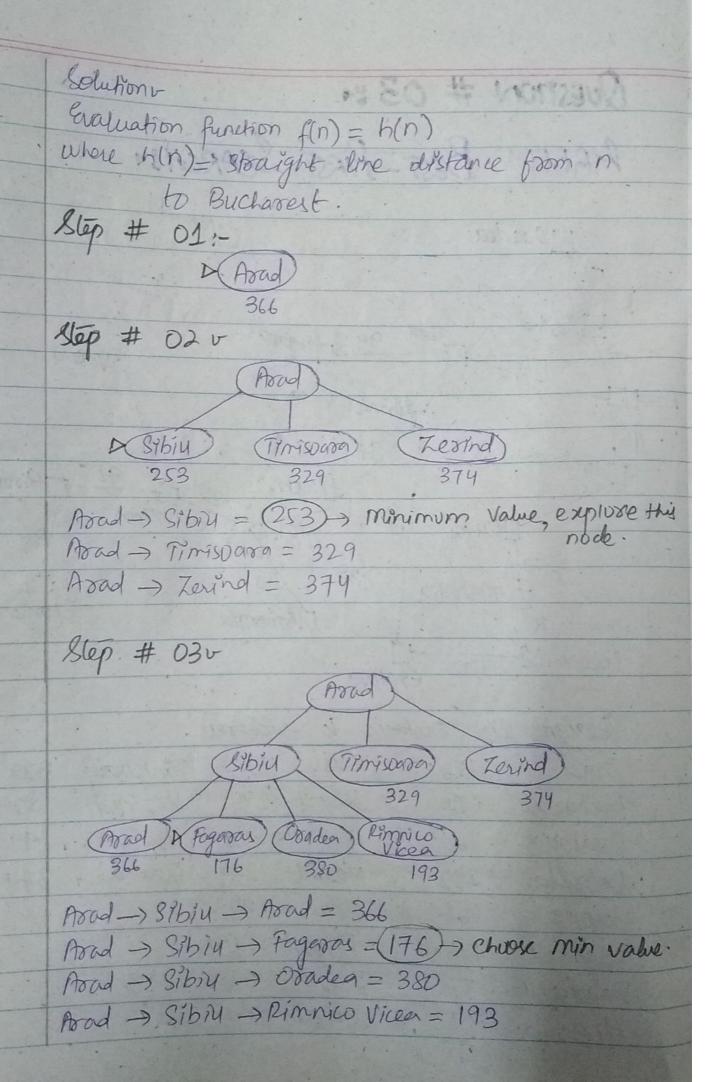


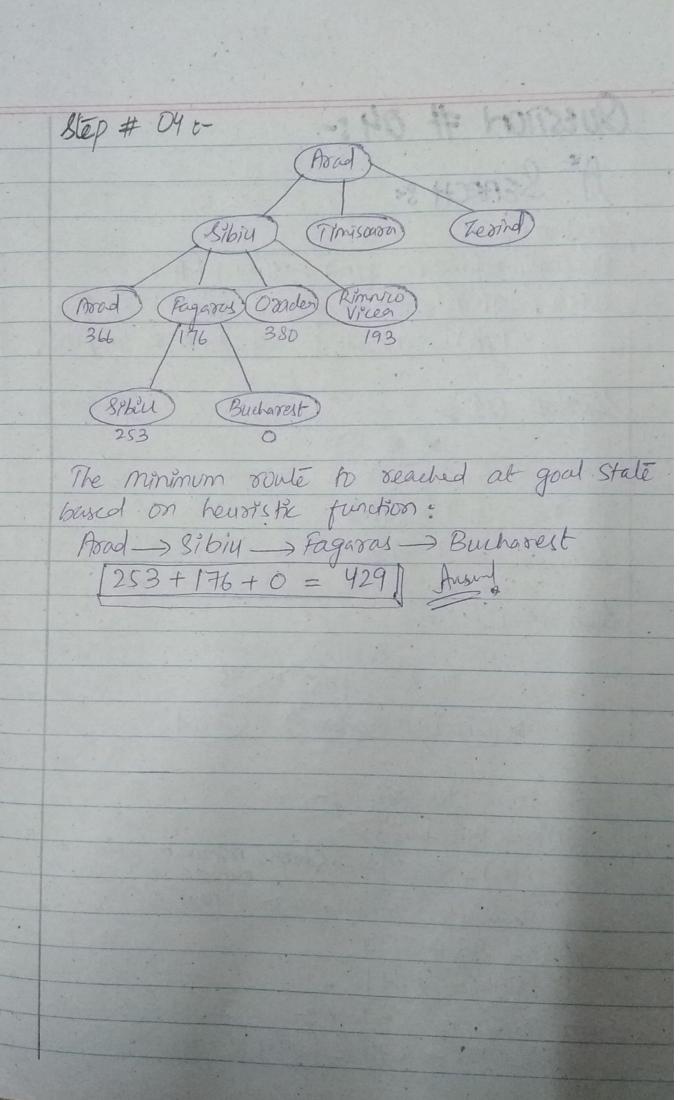
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Craiova	160	Mehadia 241 Vaslui 199
Dobreta	242	Neamt 234 Zerind 374
Ejone	161	Oradea 380
Fagaras	176	Pibesti 100
Pringgin	77	Rimnico Vilcea 193
Hixonya	101	0013: 000

SIDIU

253





#### QUESTION # 04:-A\* SEARCH 34 Solution 4 Evaluation function f(n) = g(n) + h(n) where, g(n) = cost so far to reach n. h(n) = estimated west from n to goal. Step # 01 5-X Arad f(n) = g(n) + h(n)= 0 + 366 = [366] Slep # 0250 (Sibui) (Timisoava) (Zorind From Arad to Sibiusf(n) = 140 + 253f(n) = 393 -> Charse minimum Value and From Arad to Timisoara & explore this node in f(n) = 118 + 329f(n) = 447 From Arad to Zerind &

f(n)= 75+374=1449

