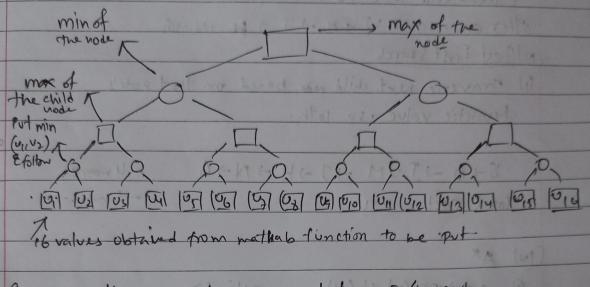
Q1 solm

1(1) Firstly, through the my Utilities Two Player Games. In matlab fonction generate 16 values through input of student ID.

NOW.



15 So, correctly & C6 values generated: = 4 mores times or correctly bocalc found minmar value (not - 4 marks

(11) Since firstly number of nodes generated (without approxing generaled) = 15 nodes

- 1 marks

Nodes generated using DPS while searching:

2 (1) Uniform cost search:

(i) In this process, only child node with min weight will be travere

dil Backtracking possible.

(ili) same node easit be visited twice.

Path.

5-1 0-1 A 36 H-1 N 45 H

Also, 5^{m5}, 0 32 A 12 B uns k²⁷, N 45 h.

=> 4 marks

Total Path cost = 199

-1 morres

(1) Hill Climbing & For this next state should have better houristic value to proceed and no backtorell Path = 1 5 -D - I - 1 M - P -> 8 2 5 marshy P deed end and no backtrack other ans = . 8 + D + I + M + J + H + M + G milBest First Search

(1) Traverse next child node, based on that node's heuristic value . so, path,

SYD-JIJHH-TH-TH-JU-G-8

(IN) AX

() f(N) =q(N) +h(N) - estimation

67D7A7B7K7N7G

supported very new white searching: