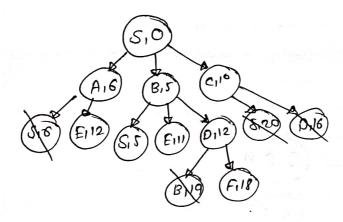
K.G.C.E. Karjat - Raigad Date: Ssignment Name: Phanashus Douendra Shinde Class: B.F ITT ROU DO: 62 Sign marks DOA DOP

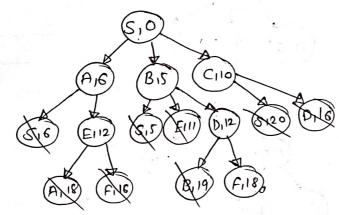
Page No.:

Page No.: **K.G.C.E.** Karjat - Raigad Date: Step 2: Step 3 C110 B, 45 8,0

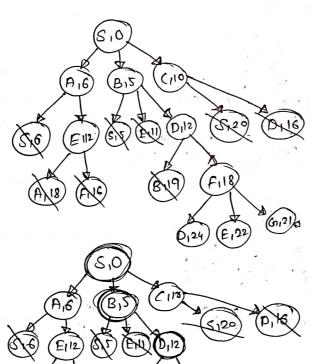
Step 5:



Step 6:



Step 7:



SKP 8:

K.G.C.E. Page No.: Karjat - Raigad Date: Initialization: Computer F- source for 8 & put it in Openlist. F- Source S: F(S) - n(S) - 17 F- Source of Successons F(A) = h(A) = 10 F(B) = h(B) - 13 F(c) = h(c) - 4 Step 2: F source of successions F(s) = h(s) = /17 F(D) 2 h(D) = 2 Skp 3: F-Source Of Succession F(C) - h(C) = 4 F(B) = h(B) = 13 E(F) = h(F) =1 F-source of successor f(D) = h(D) = 2F(E) = h(E) =4 F(6): h(6):0

KGCE

K.G.C.E. Page No.: Karjat - Raigad Date: Solution is: 5 -> (-> F -> 6 with Solution: 10+6+6+3 lowest path gin) can be cost to trach goal configuration in at last u mones:

tinal configuration in at last u mones:

up, up, left, left. Since all mones are equally cosky, me compute, gen) as g(n) = 1+1+1+1 consider following 8-puzzle instance: Solution can be supredented as \[\left\{ \frac{1}{2}, \frac{1

Page No.: K.G.C.E. Karjat - Raigad Date: Since all moves, are equally costy, cost would he g(n)=6 Initial config 6 \overline{c} 7 5 3 UP 6 2 down *up left 1eFt nighi 6 8 6 S 2 5 2 2 2 Q 3 3 3 down 6 8 7 7 8 6 2 2 night down left 8 8 6 2 2 6 final configuration

Page No.: K.G.C.E. Karjat - Raigad Date: for i=1 n=initial state
h1(initial): Misplaces files count except h2 (initial)=4 n=goal State ton i-2 n- initial state ton 1-3, n= initial state ha (initial) = 8um of dist between current & coviect position of all files except space. ha (initial) = 0+0+0+0+1+1+1+1 ton n = goal state
hz (goal) - 0