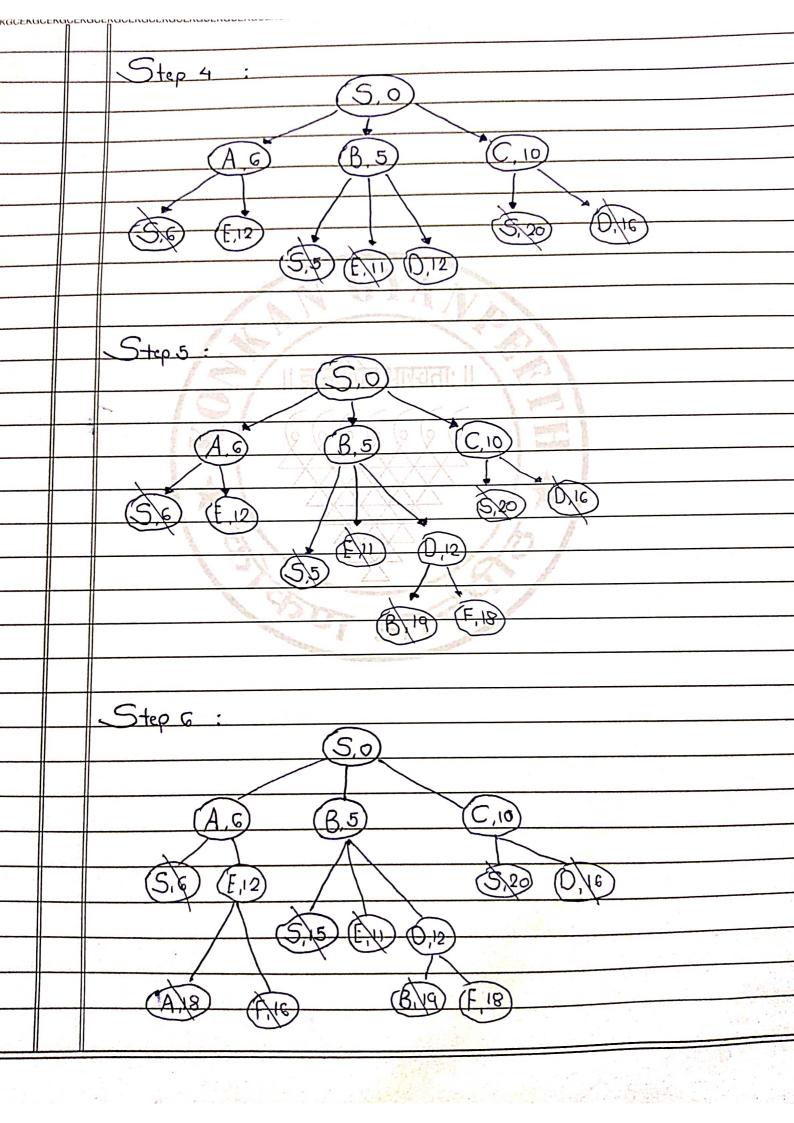
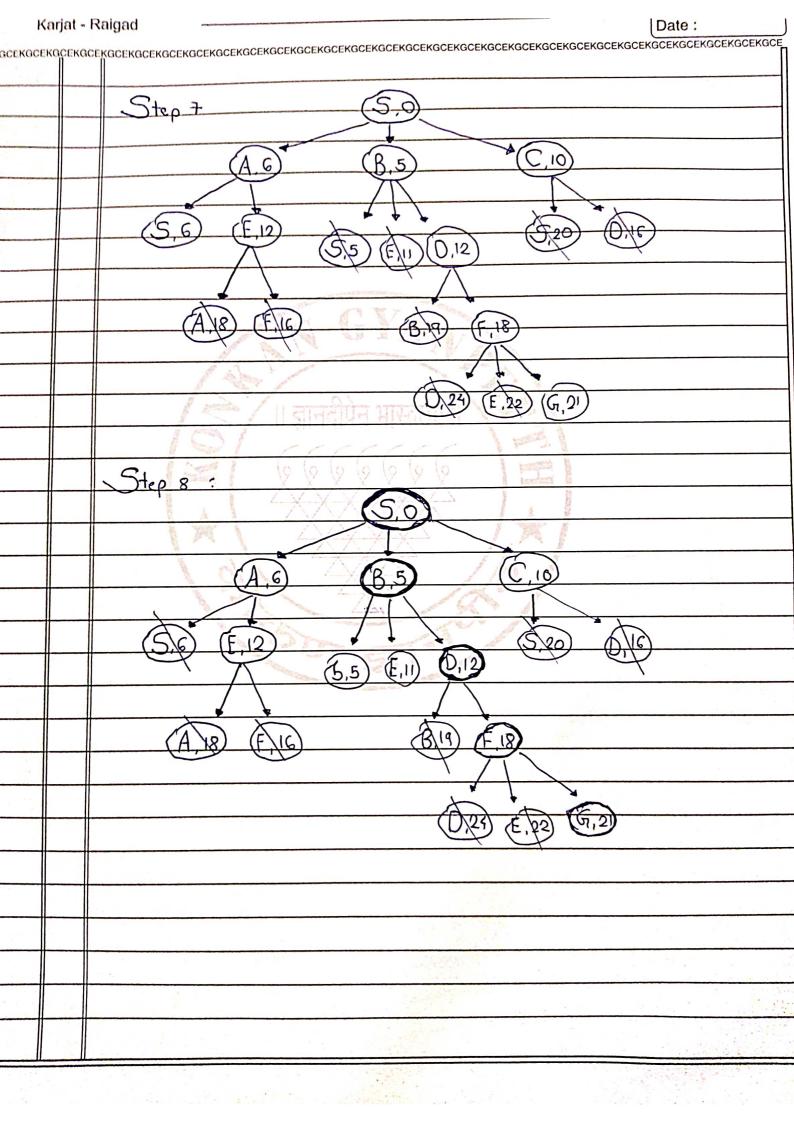
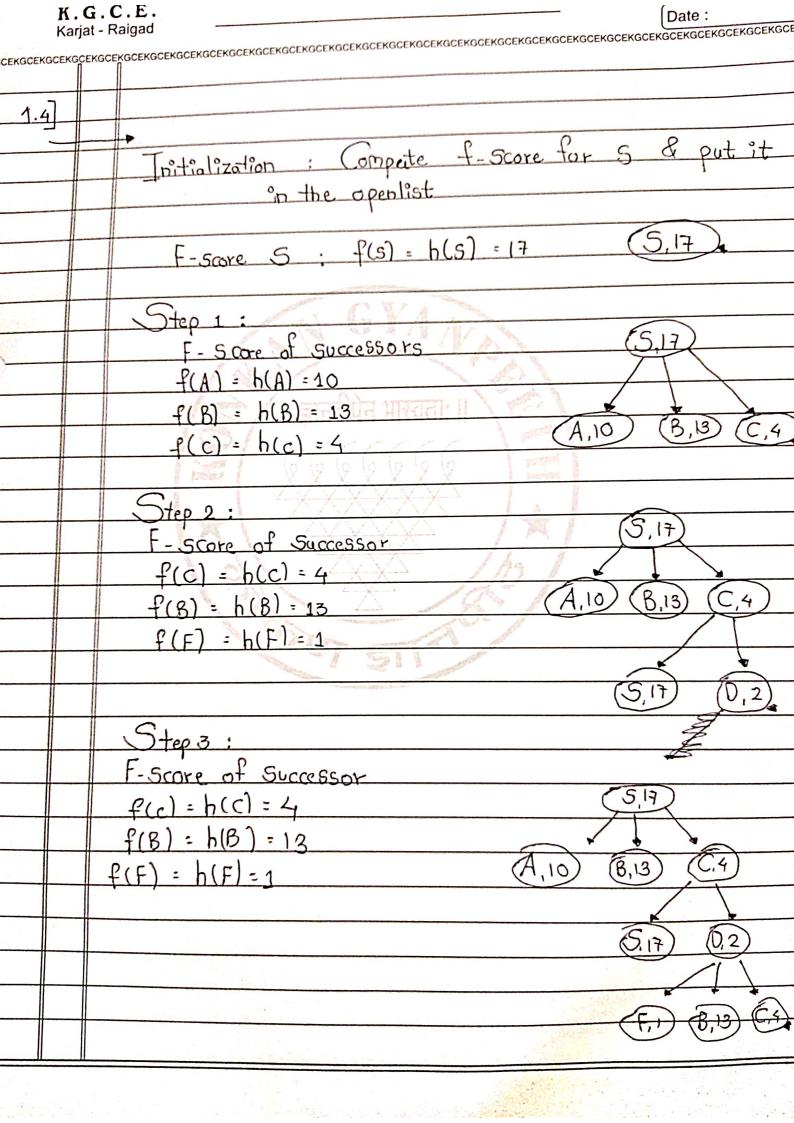
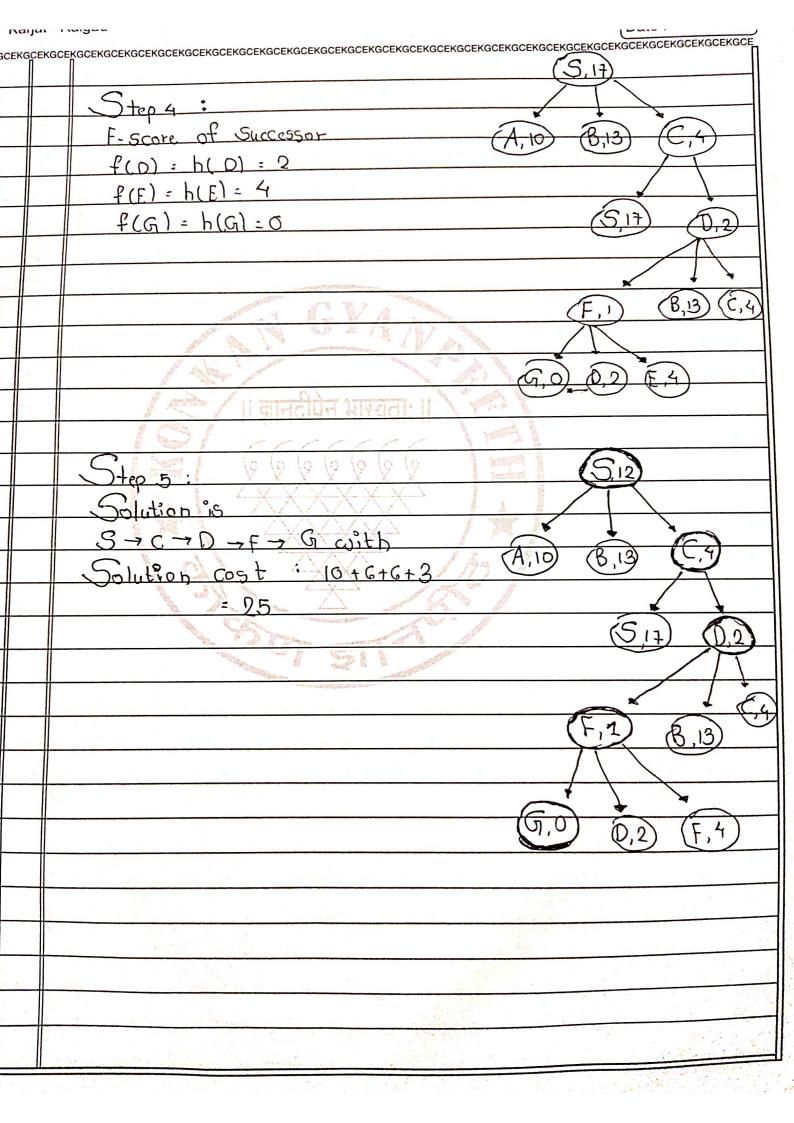
rayo mo Assignment No. 1A K.G.C.E. Date: Karjat - Raigad Name: Makir S. Karangale Class: BE-IT

Page No. : Assignment - 1[A] K.G.C.E. Karjat - Raigad Date: 0.1

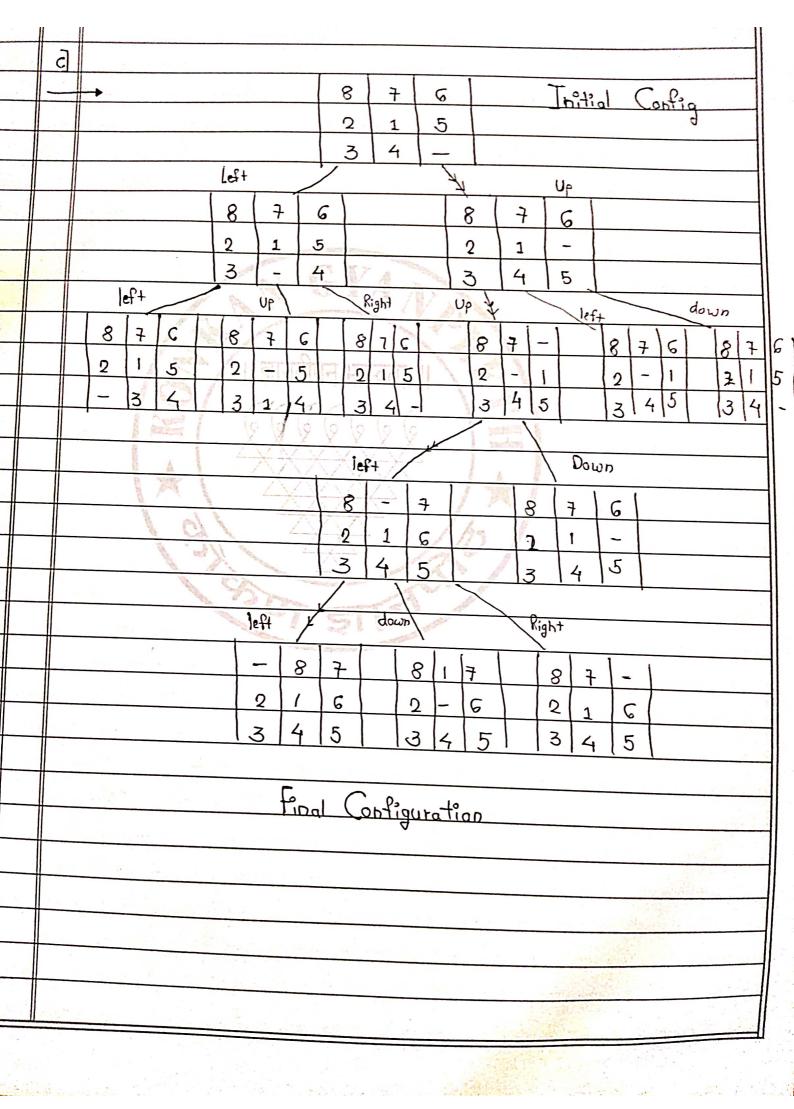








Karja	t - Raigad Date :
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9.2	
<u>a)</u>	Till de la cost colo) con he the cost
	The lowest path cost g(n) can be the cost to reach the goal configuration in the least
	Thour Case We can reach the final configuration
	1555
	in at least 4 moves: up, up, LEFT, LEFT
Eld vil	Co us a south coath we consider a(b)
	Since all moves are equally costly, we compute g(n)
	as ( ) and a second of the sec
area .	9(b) = 1+1 5TOL+1 MINOR II
$-\parallel$	(a) = 4
. 4	Consider the following 8- puzzle instance:
	8 7 6
	2 1 5
	-134
	Solution con be represented as
	3 { 8, 7, 6 } { 2,1,5 } 9 - , 3, 4 } → { 18,7,6 } { 2,1,5 } { 3, -, 4 } }
	行8.7.63921,5353,4.35→ 行87,63 €2,1,-3 €3,4,536-
	[{8,7,-} {2,1,5} {3,4,5}} → {{8,7} } {2,1,6} {3,4,5}} →
1 1	55-877 50, (7 671, 57)
-	{ <del>1</del> <del>1</del> <del>-</del> , 8, <del>7</del> <del>3</del> <del>1</del> <del>1</del> <del>2</del> , 1, 6 <del>3</del> <del>1</del> <del>1</del> <del>2</del> <del>3</del> , 4, 5 <del>3</del> <del>8</del> <del>8</del> <del>1</del>
-	Since all the moves all equally costly the cost
	would be
	g(n) = 6



e]	
	For i=1, h = initial state  h1(initial) = Misplaced likes count except space  h1(initial) = 4
	n = goal state b1 (goal) 0
	For i= 2, n= initial State  h2 (initial) = Correctly placed files count except space  h2 (initial) = 4  for n = goal State
	for i=3 n="initial state h3 ("initial) = Sum of monbatton distribution between
	Overent & correct position of all tiles except
	h3 (initial) = 0+0+0+1+1+1+1 = 4 for h = goal State h3 (goal) = 0
	DS CQUALL V