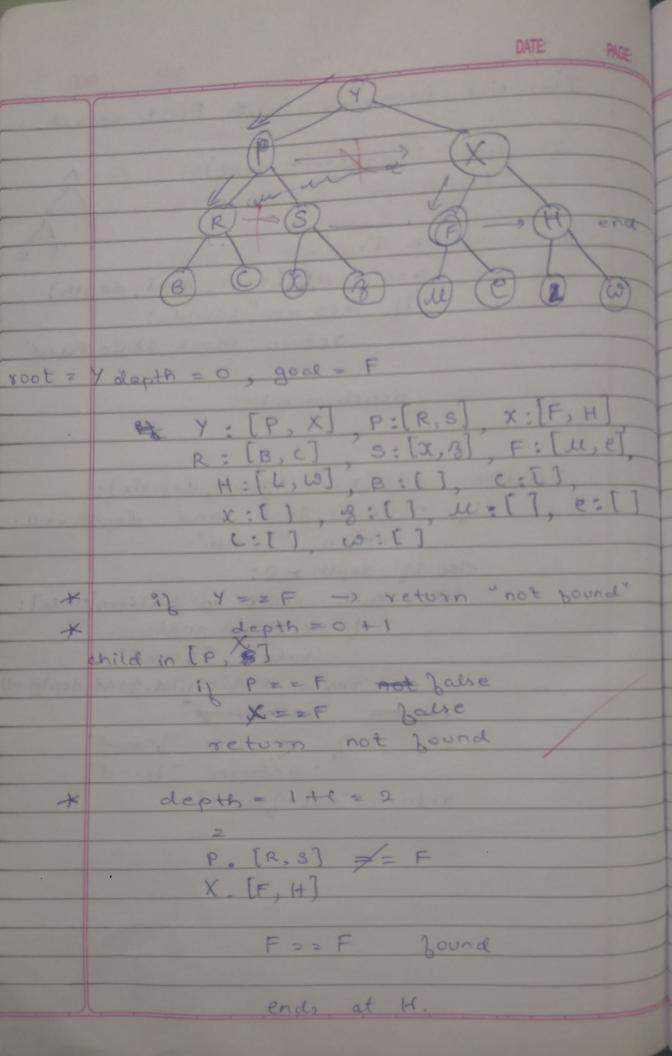
15/10/2024 DATE: PAGE: Iterative Deepening Depth First Search function iddjs (root, goal): depth = 0 while True. res = dls(root, goal, depth) if res == "bound": return "Groal State Found" depth +=1 function dls (node, god, depth). if node == goal and depth == 0: return "found" else if depth > 0: for each child in childrenthode! If child = = goal: return "gound" res = dls(child, goal, depth -1) return not found if res = = "bound" return "bound" return "not found"



-	DATE: PAGE:
X	A* Jos & puggle problem.
	Junction A start 3
	initial state 95
	1 2 3 2 8 1
	8 4 4 3
	7 6 5 7 6 5
	goal-state = [[2,8,1],[0,4,3],[7,6,5]]
	final_Black_tile(state):
	boy i in range (3):
	for j in range (3):
	if state[i][i] ==0:
	Willeles Pill return isi
	return None
	The second of th
	manhatlan_distance(state).
	distance = 0
	Jou l'ên range (3):
	for J in range (3)?
	tile = state[i][i]
	if tile 1=0:
	goal x, goal y = dirmod
	(Ct-1), 3)
	distance + = abs(i-gabl.x)
	+ abs(i-goaly)
	return distance.

return path (parent, cur) close list add (curs) for neighbour ?n neighbours[curr]. of neighbour in close-list. continue. news = g_score[curr] +1 if neighbour not in open-list and not in close list or news & g_scoretneighbor parent (com) = corr g'score [neighbous] = new-g 1_score = 2 2 scoretneighbour] + manhattan (neighbour goal) open list add Cneighbour, score) return "No solution" From validestate we get neighbour to Blank function path (parent, curr) followed = [curr] while curr in parent! curr = parent [curr] followed append (curr) print (reverse(path))