	classmate
	Page
	29th October, 2024 Tuesday Laboratory-6
	For the (N=8) Queens Purggle, implement taking the following
	algorithms:
	on A*
	m Hill awnling Algorithm
	A* Algorithm to solve the N=8) queens Problem.
Step 1:	Create a 8x8 chessboard in the initial state Setup an open set to explose configurations
	Setup an open set to explore configurations
	Setup a visited state to display different sets visited
Styp 2:	Calculate the number of attacking pairs that givens should not
U	be en the same row or same column or same diagonal
	if State(j) == state(j) or als (State(i))
	state [j] == j-1 // diagonal
	attacks + = 1
	then we increment the variables attacks to determine attacking
	pairs.
	open_set :[]
Otin 3:	Assign initial state to open state for his first iteration
	Assign initial state to open state for his first iteration  If the node is not visited, then first put it iteration If on appears self and will push his node to peap q' (prionty q)
	on adensel and will push his rade to heap q' (prionty q)
	adap g 2 sheap push ( open set, Node (new strike, g, h)
Step 4:	Total estimated ast f=g+h,
7	8 -> cost to reach the current stule
	h - hundre of Altribes to reach food state
Stine	Mach 1000 E Remove true mode with lower west?
Styp 5:	Main boy & Remore tree mode with foronast?
Step 6 2	Detination of the nort now to place the onem
Sty 7:	Determination of the next now to place the green Update of and calculate in
Exp T	

	Date Date
	Trage (
	1 alastitus.
	Hele ceinting algorithm
	grate an away where each index represents a columnand
Stip 1:	du value représent su son positions of lin queen indim
	2000
	ist [] g = new int(8)
	92 [ ] ] ] ]
	01234567
Sty 2:	Quitializa rondern strito  9 2 5 2 3 4 5 4 7 2  0 1 2 3 4 5 6 7
	9=0 2 3 4 5 47 2
to the	
	De- 1 1 1 to
Oty 3:	Retore a decentration value be(n) where the represents the removed anguiltry pairs in each test.
	runsing anguay pairs on aquant
SUP 4:	Cheele for conflicting pains:
	confeils ()
	5
	Confuret = 0  for i = 0 to 7 do
A CO	foritotito
	for \if (boxed W) = bound E(1)
6 6	Confricts = 1
	Leturn confluets
Stip5:	ament = amprit (board)
Sup 3.	and the confines (violated)
Step 6:	for i - oto 7 do
	for j = 0 to 7 do
	Grand all
	C= asylvistboard

