PAGE NO: 13

1	Vitny Manhattan Distance
1	Tritialize state load shall better
	- Define the Initial state and the goal state
	- Wate on open but to keep track of nodes to
	- Wate on open but to keep track of nodes to be craliated printialized with the starting
	state
	- Create a set of track visited states.
	Property.
	- Pop the state with the lowert [fin]=g(n)+h(n)]
	- Pop the state with the lower (tin) = pent thing
	The ODIN COL.
	If the stafe is the good state, print the
	posts and refusion the humber of nieves.
	path and return the humber of nioves.
	Generate Neighbour.
¥g	
2- 20 21	blank tile.
	- (alculate q(n) ( depth of the current state).
92_	- Calculate hou) - (sum of mahattan distance
é.	from foll the tiles ).
	1- Compat f(n): g(n)++h(n).
= 17	the huighbar has not been visited, add
	it to open list and mark it as Visited.
	2511:4
3.	Sort the open list based on f(n) for the
	next iteration.
4	If the open list is empty and no solution is
	found, setun -1. 611.
	1 1 8 1 7
	TO DE
17	that? lant!

PAGE NO: DATE: State Space Truiscould attendant Juital State: Goal Hate: t 3 2 3 4 4 8 1 ( 7 7 5 Initial 7=0 K: 1+2+1+1=5, 8 3 State 16 F= B 5 de 1 h=6 3 2 8. 3 h:6 3 F= # £=5 17=7 b 4 4 1 4 7 7 6 5 7 2 9:2 125 2 L:5 L=3 2 3 8 3 2 F=7 7=5 4 8 4 5 7 6 5 6 7 7 23 Mg = 3 4:2 2 3 2 3 4=4 7=7 4 f=7 8 4 7 7 6 .5 9=4 hal 2 4-7 h=0 2 3 8 4 7 6 5 Fral State