Anirudoll N.S 1BM18CS015 10/11/2020 AI Lab Test -1 Q:- Implement A* algorithm using enclidean distance as benristic, to solve the following ware structure. for source & destination. Solution: Using A* algorithm & enclided distance with recursion. Self rolle & roll: def euclid Distance (21, n, m): dist = math.sgrt ((n-1-x(0))*2 return dist def find Shortest Path (next Path, n, m): min Dist = 999 next = [] for n in nentpath:

if (enclid Distance (x, n, m) < min Dist):

min Dist = enclid Distance (2, 4, m)

next = n return nent def find Path (n, m): path append ([0,0] current = [0,0] nohile (current != [n-1, m-1]): nextPath = [] for x in neighbours: a=[] a append (current[0]+x[0]) a. append (current[1]+2[1]) if a [0] > -1 and a [0] < u and ali)>-1 and :f (maze[a[o]][a[i]]): if a not in path and a not in closed Pathe: next Path append (a) & if (nentfath): current = find Shortest Path (next Pally path append (current) closed Path append (current) current = path [len (path)-1) print ("No path b/w them" print ("No bath is bossible