Abhishikat Joni AI-LAB TEST 1BM18CS004 impost math #Maze Parblem muze=[] #AX Path=[] closedPah=[] (Insure) brooms. Halowals neighbors = [[1,1], to, 1], [1,0], [1,-1], [0,-1], [-1,0], [-1,-1] de le euclid (x,n,m): dist = math.sgrt ((n:-11-x[0])+2+(m-1-x[1]+2) archan dist de find Shoolest Path (nent Path, n, m): (0) for 9. min Distance = 999 next=[] : () fast? (2) Jos n in next Path: i) (euclid Dist (n, n,m) < min Distance) * min Distance = euclid Distance (un, m) paral (Fries mase glandalle (O-blocked archan next i (red spread in 1 at find Path (n, m): path-append (TO,O) Lugai in) good will a current-= To, 0] (D) maggo read while (current != [n-1, m-1]): (" property") long nent Path= IJ (a) squase on i sol Jos n in neighbours: 2 (cm) grant in 1 100 a. append (current [o] +x[o]) a append (current [1] + 2[1]) il ato]>-1 and ato]<n and ato]>-1 and ato]<m: # i] (maze [a[0][a[1]]: nentPath-append (a)

i) (nent Path):

current = find 8 hostert Path (nent Path, n, m)

Path-append (Current)

else:

i) path: closedPath-append (current) i) Path: current = path [len(path)-1]
else: elk: exit (o)

exit (o) enit (o) EUP : made land de Stast(): n = int (input ("Row")) = > (my) to ablow m = int (input (" Fenter Column")) Point (" Enler mare stouchure (0-blocked, 2-free);") Jes i in grange (n): : (m, r) dto / bay a = list (map(int, input(). split("))) - Lago Ja January mare append (a) [1-m 12-1] - [toward) olido Jor i in starge (n): soudd pa i de ont i) (i j) in path); Ist [o] from a mago is else: point ("_", end="")

point()

point() Point ()

point (path)

iff.

i) - name_=="_main_";

stast()

TA