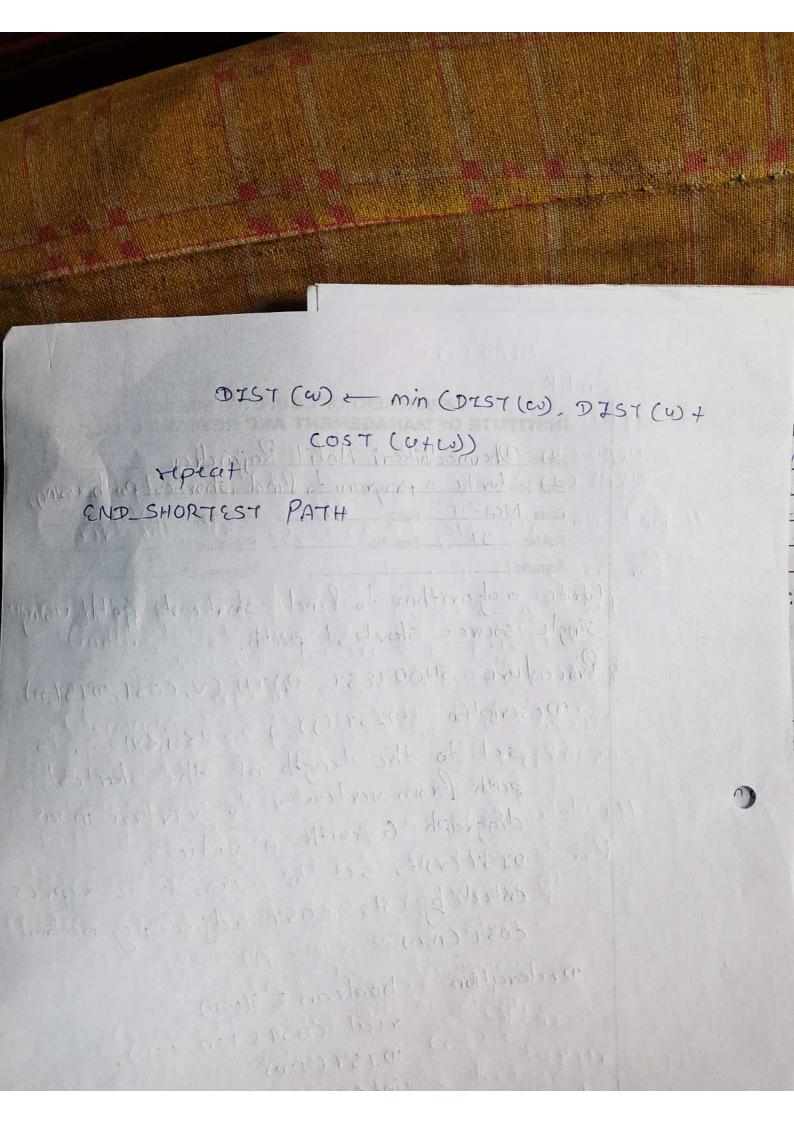
Name Dharmadhikari Ankit Rajendra Expt. Title wife a program to Rind _ Batch _ 32 Roll No. _37 Expt. No. _ Remarks . write a abovithm to find shortest path using single source stortest path. Procedure SHORTEST_PATH (V, COST, DIST, N) Description - DIST (1), i is ISUKA ..., 15 set to the length of the stortest path from vertex v to vertex in a diagraph & with n vetices. DIST (V) is set to zero, G is represented by its cost adjacency matrial COST (n,n) Declaration - boolean & S(1:n) real cost (1:n, i:n) DIST (1:n) integer En, u, w, u, num, i 11 Initialize set s to empty and DIST using current edges. Por it ton, do s(i) (0; DIST(i) SCV) <1; DIST(V) < 0/1 add Visins. for num + 2 to n-1 do choose 'u' from group those vertices not in s such that 9757 (w) = min (9757 (w) and s (e)=0 s(a) = 1 /1 pu+ 'u' is set 5

for all worith scor = 0, do

Incomplete for:

- 1) Algorithm
- 2) Flow Chart
- 3) Programme Listing
- 4) Results
- 5) Comments



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|------------|---------------------------|------------------------|
| 1 | shortest Path: | Returned on |
| | - ALL_PATHS | |
| Descr | intion - | |
| Cos | T (n,n) is the | cost adjacency matrix |
| 3 | a graph cuit | h n vehvertes |
| AC | i, i) is the | cost of a shortest pat |
| Pro | on v; to vi. | |
| | st (i,i) = 0.15 | sien |
| | | |
| | ration: - () integer i, j | , k , n |
| | real cost (| |
| Algorit | thm it | Landa (19) |
| | For je 1. | |
| | | Licosta Cilio Canta |
| | repeat | |
| Ò | epeat | |
| | or le = 1 | to a da |
| 11 Alg | millipor it | - 1 to n do |
| | | i) - min CA (i,j), |
| | | A Ci,k) + ACK, U) 3 |
| | repear | |
| | repeat | 7.7.7.4 |
| TENOTE | epeat (1) | William Colon Colonia |
| ONS | All PATHO | |

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