Subject: Software: Ubunta DAM LAB Hardware: Occo 15 Branch: CSE Semester: 4th Prog No. 06 Page No. 21 Write a Preogream to find shoretest reutns to other veretices from vertten in a weighted connected growth using RITHM & CODE: Dy Kstrza's algoraithm. # include < Staio. h> # include < IPmits.h> # include (Stabool. h) # define MAX\_VERTICES 100 int minDistance (int dist[], bool spiset [], int vertices) 3 int main = INT\_max , min\_ inden; for (int V=0; V ( vertices; V+T) Sif (!sptset [v] of List [v] <= min) Smin = dist [v]; min\_index=v; return min\_ indem; void Printsolutions (int dist[], int vertices, interc) Sprintf (" vereten It It Distance from Source (16d) In forc (int i= 0; i < vertices; i++){ Printf ["olod It It olod In", i, dist [i]); voi d dijkstra (int grouph [MAX-VERFICES ] [MAX-VERFICES] , interce, int yeartices) NPUT GIVEN DUTPUT OBTAINED

GRADE :

REMARKS

Signature of Faculty

Signature of Student Rudicanarayan salvoo

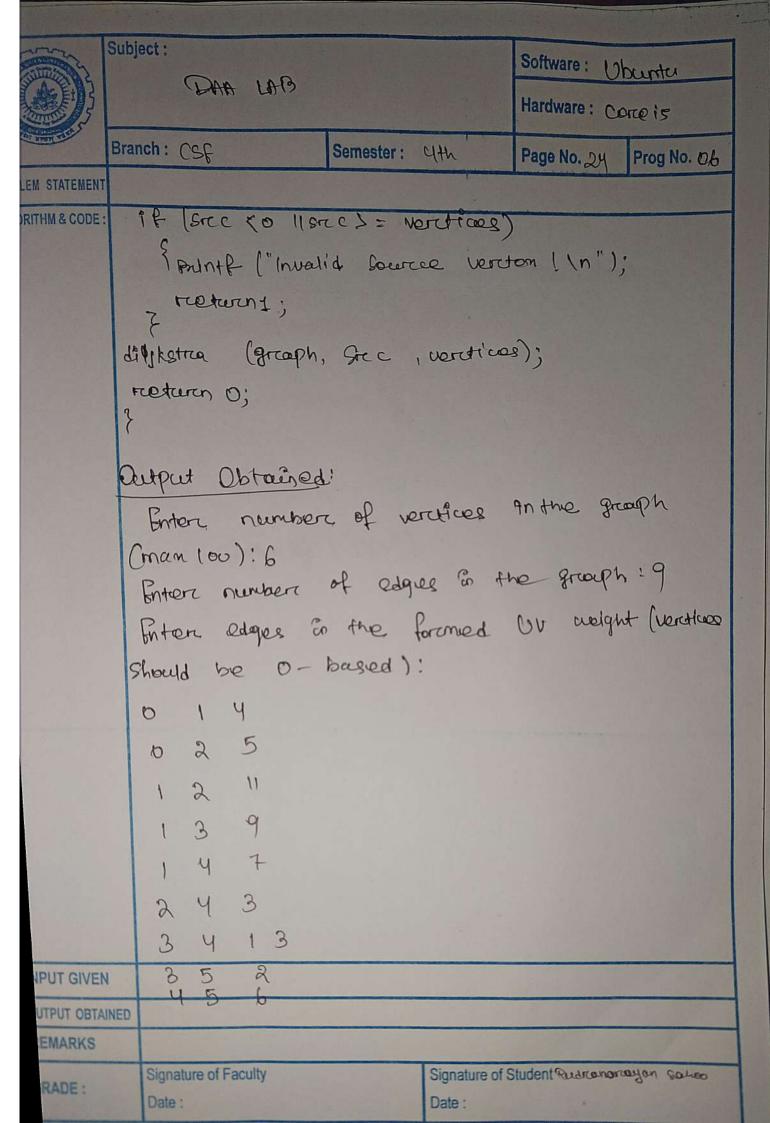
Subject: Software: Obcenta DAM LAB Hardware: Corce is Branch: CSE Semester: 4th Page No. 99 Prog No. Ob fint dist [vertice]; bool spisser [vertices]; for (inti=0; i< vertices; i++) SLIST [ ] = INT. MAX; Spt set [i] = false; dist Psocc] = 0; Fore (int count = 0; count < vertices -1; accent ++) Sint U = min Distance (dist, spt set, verctices); Spasset [u] = true; fore (int v=0; v < vertices; v++) SPF (ISPT Set [v] ff graph [v][v] qfdist[v] ! = INT-MAX & dist [U] + graph [U] [V] C dist [v]) fdist [v] = dist [v] + grouph [v] [v]; Print Solutions (dist, vertices, sice); int mais ()

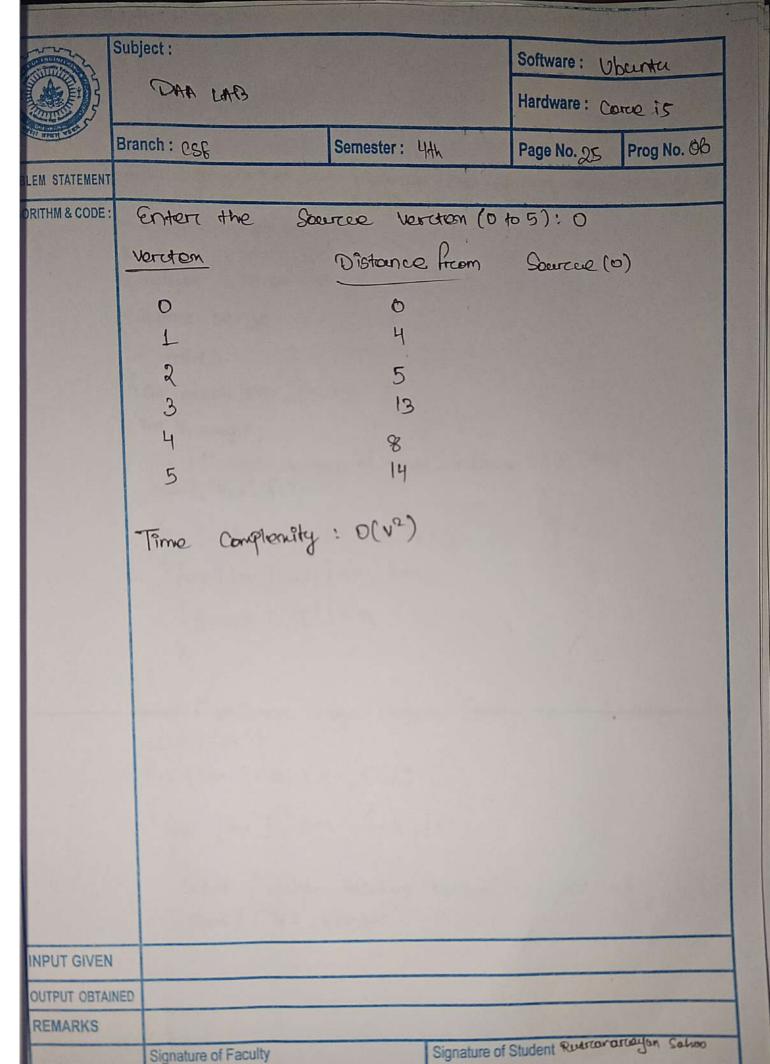
int main ()

{
Int verifices, edges, sicc;

Date:

Subject: Software: Obunta DAA LAB Hardware: norce is Branch: Csf Semester: 4th Page No. 23 Prog No. 06 RITHM & CODE: Got grouph [MAX - VERTICES] [MAX - VERTICES] = {0}; Pount & ("Entere number of vertices in the growth (man · 60): " MAY - VERTICES); Scanf ("olod", & vertices); Printf ("Enter number of edges in the grouph:"); Scanf ["0/00", fedges); fore (int i=0; i < vertices; i+t) Afon lint i=0; j< vertices; i++) Egraph [i][i] =0; 7 Buntf (" Enter edges in the foremost 'UV weight! (vertices should be 0 - based ): In "); For (int i = 0; i < edg 08; i+t) fint U, V, weight; Scornf ("old old old", & U, &V, of weight); fragh [U][U] = weight; graph [v] [v] = weight; Buint ! "Enter the source verten (0 to "lod):", veritices - 1); Scanf [ "lod", & Sne); INPUT GIVEN **OUTPUT OBTAINED** REMARKS Signature of Student Rudmanarcaigun sa hoo Signature of Faculty GRADE: Date: Date:





Date:

Signature of Faculty

Date:

GRADE: