EM 4, SECTOR V, SALT LAKE, KOLKATA - 700091, WEST BENGAL, INDIA

Subject: DESIGN ANALYSIS AND ALGORITHM

STUDENT ID	231003003086
NAME	Mohak Gupta
DEPARTMENT	BCS-AI-3C (GROUP - EX-B)
SEMESTER	5TH SEMESTER
STREAM	B.TECH CSE-AI
YEAR	3rd

```
Hinclude (stato. h)
 It define V4
Ecces ANT anijob the
void proint solution (eint dist[V][V]);
void flogdwarshall (in + grouph [v] [v]) {
   int dist(V)[V], i), K',
  for (w=0; icn; i+4)
      ton (0=0; 12~; 1++)
         gu+ [i][i]ydboub = [i](i) + up
 fan (K=0; KSA; K+4) }
       for (0=0, 0<70+4) 9
           Jan (3:03)(N) (1+1) {
             (DEJ+ mb )[DEN]+mb+[W][i]+11b] ju
                [[][[] Price + [[][[]+ ris = [[][[] + ris
 print Solution (dist);
void prointsolution (in + 200+TVJ[VJ) {
    print ( " Following matrix shows the shortest
   distances between every pair o vertices: (n");
      for (in + i = 0; i(V; i+1) }
           for Lines: 0, ic v; i, + +) }
              in (din+to) [i]==NE).
                 print ("1.75" "INF");
              printy ("1.72", dis+(0)[0]);
```

il + mai () 3 int graph [N][N]= { { U,3,5NF,7], & 8,0,2,5NE3, {5, INFO, 13, ¿5' ZNE, ZNE, 033; print ("Imput adjacency matrix (n"); for (in+ 0=0; d<v; 0++) { for (int i = U; i < v; i+1) } if (anotr[i][i]:INE) besinft (~1.17, "INts); ense print ("1.7d", groaph (v)[i]); begraff (, / , ,); brunt (, luc); fuy a warshall (growph); g moeter 0; Input Adjacency matrix; 0 3 INE 7 8 0 2 JNF 2 INE 0 T 5 2NE 3NE P Following matrix shows the chartest distances between every pair of vertices: