Bellman Ford Xlgorithm Tracing.

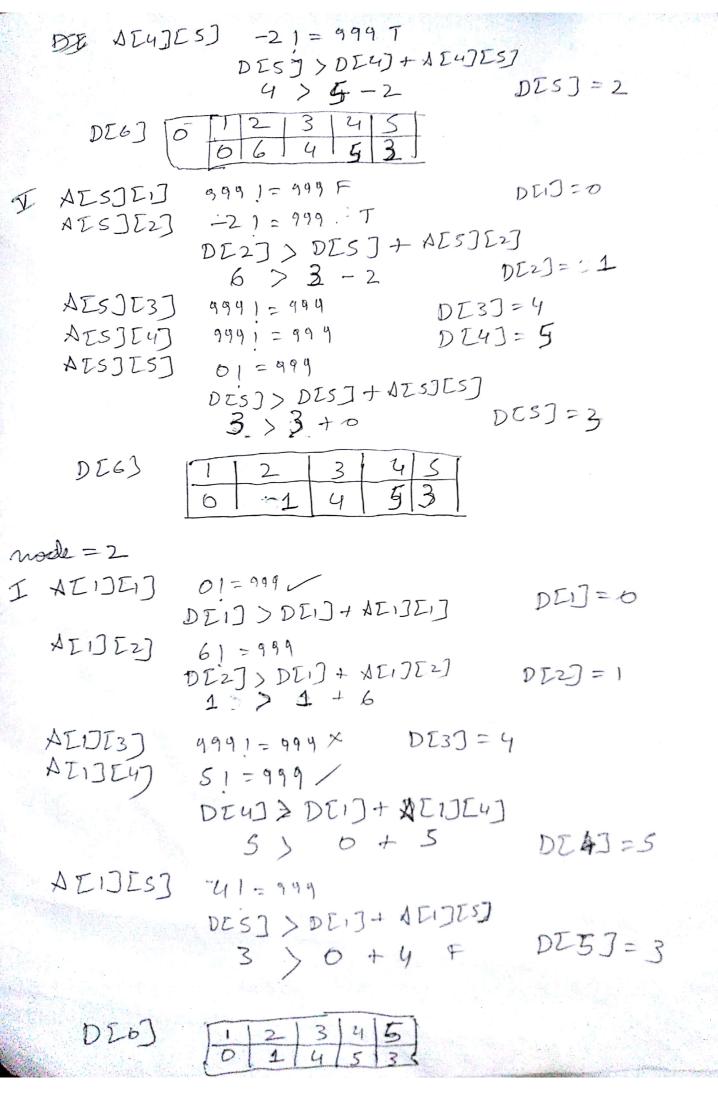
moun () ACJEJ num Ver D Source D Mox Value = 499 Enter number of vertices nuver 5 Enter the odjacency motrix ·ALSNIEdn] => ALGILG] A [1] [2] = 0 A [1] [2] = 6 from 1 A I D I3J = O A IIJ [4] = S A IJ ISJ=4 1 [2][1] = 0 A E3JEJ= 0 A [4][1]=0 XES][]=0 A [4] [2] = 0. A [2] [2] =0 A[3][2]=0 X[5][2]= -2 DE4][37=-1 A [2] [3] = 3 ALSJE3J= 0 A IBJ IBJ = 0 X[4][4]=0 1 [2] [4] = 0 V [3] [4] = 0 A [5] [4] = 0 XI4J[S]=-2 X [2] [S] = O A [3] [5]=-1 AISJISJ=0 if AISNJIdnJ== 0 then AISn][dn] = Mox_volue //999 DII values of adjacency moderix are Bled with 994 where. DESnJ[dn]=D, others than constition where Sn==dn, if sn == dn

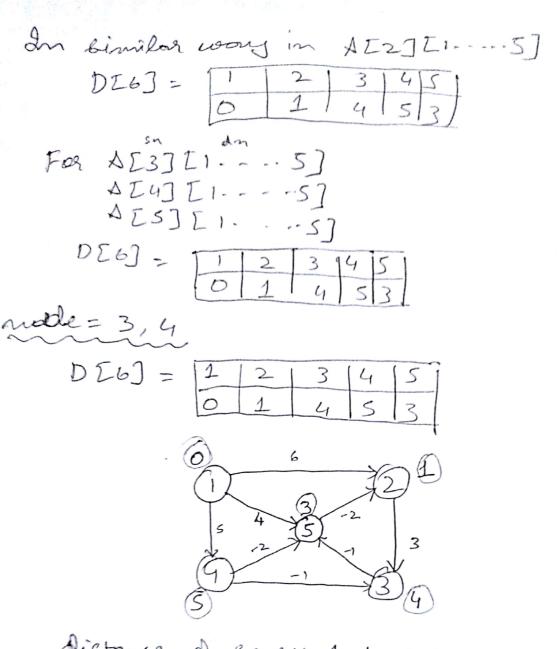
	AISNIEDA	1	2	3	4	5
	1.	0	6	1999	5	4
-	2,	999	0	3	999	999
	3	999	999	0	999	-1
	4	999	999	-1	0	-2
	5	449	-2	999	999	0
- 1	394.3 8000			STATE OF THE PARTY	The second second second second	DAMES OF THE OWNER

then Alsn JIdn] = 0

```
Enter source Vestex:
  Soure = 1
  Bellmon Ford (5) // colls construction
  DE]=5+1=6 //D[6]
  Bellmon Ford Evaluation (1, A.[][]) // Function to evaluate
      D[source] = 0; // D[1] = 0
      Rest all made = Proxvolue > 999
  D[6] 0 1 2 3 4 5 ...
  If it DIAD > D [Sw] + weight of edge UV
        then D [dw] = D [Sm] + weight of edge uv
  This is executed when AISn] Idn] 1= 999 //Edge exist
I A[I][] => 01=999/
            DDI) > DDI) + ADIJDI)
                                    DIJ =0
  ALU[2] =) 61 = 999 V
            DE2] > DE1] + SEI] E27
                                    D[2]=6
              999>0+6 T
  A [][3]=) 999!=999义
                                     D [3] = 999
  A I 13 E 4] => 5!=999
             DE17+ DE13E47
             999 > 0+5 T
                                    DI47=5
 SIU[5] => 4!=999~
            DES) > DEIJ + A EIJES)
                                   DISJ = 4
      DI63 0 1 2 3 4 5 999 5 4
```

X [2] [2] X Persent Graph -I DEZJEJ = 9991 = 999 F DI2JE2] = 0 1 = 999 T DLJ=0 DI2J > DI2) + SIZJIZ] DI2]=6 6 > 6 + 0 DE2)[3] = 3 ! = 999 T DE37 > DE2]+ A [2] [3] 999 > 6 + 3 D [3] = 9 A[2][4] = 9991=949 F DI4] = 5 A [2][5] = 9991 = 999 F DC5] =4 II A[3][1] 999 = 999 F DIJI=0 A[3][2] 9991=499 F DE2)=6 DI3JE3] 01=999 T DE3] > DE3]+XE3]E37 9 > 9 +0 D [3] = 9 A [3] [47 9991 = 999 F DE40=5 A [3] [5] -11=999 T DES] > DE3] + AE3]E5] 4 > 9 - 1 F DESJ = 9 A Z 4 J Z 3] -1 = 999 T DEITEO DI27:6 DE3] > DE4]+ SE4][3] DE37 = 4 93 5-1 AL40[4] 01=999 T DIUJ > DIUJ + DEUJEU DE4) = 5





distance of source 1 to 1 is DEIJ=0 distance of source 1 to 2 is DEZJ=1 distance of source 1 to 3 is DEZJ=4 distance of source 1 to 4 is DE4J=5 distance of source 1 to 5 is DESJ=3