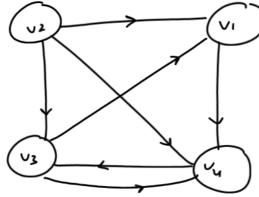
PATH MATRIX

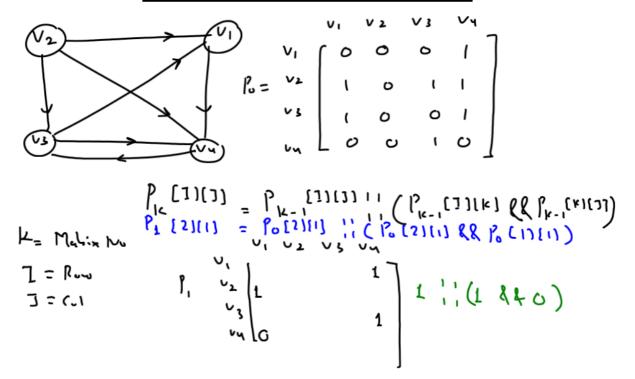


V2-7 V4-7 V5-7V1-7V4

1/2 -2 V3 -2 U4 -2 U5-2 U4

U2 -7U1 -7 V4-7 V3-7V4

WARSHALL'S ALGORITHM FOR PATH MATRIX



```
void warshall(int adj[][4],int path[][4])
#include <stdio.h>
void warshall(int[][4],int [][4]);
                                                          {
                                                             int i,j,k;
int main()
                                                             for(i=0;i<4;i++)
{
                                                             {
  int adj[4][4],path[4][4];
                                                                for(j=0;j<4;j++)
  int i,j;
                                                                {
  for(i=0;i<4;i++)
                                                                   path[i][j]=adj[i][j];
                                                               }
     for(j=0;j<4;j++)
                                                             for(k=0;k<4;k++)
       printf("Is there a direct path from vertex
[%d] to vertex[%d], Yes-1, No-0 ?", i+1, j+1);
                                                                for(i=0;i<4;i++)
       scanf("%d",&adj[i][j]);
                                                                {
                                                                   for(j=0;j<4;j++)
  }
  warshall(adj,path);
                                                                      path[i][j]=path[i][j]||(path[i][k]&&path[k][j]);
  printf("Path matrix is \n");
                                                                   } b(0)(1] = b(0)(1) / ( ( b (0) (0) &6 b) (0) (1)
  for(i=0; i<4; i++)
                                                                                      011 ( à LE 0)
     for(j=0;j<4;j++)
     {
       printf("%d ",path[i][j]);
     printf("\n");
  }
return 0;
}
```



