NAME: SRIVATHSAN N

REG NO : 230701343

EX NO 12 PERFORMING TOPOLOGICAL SORTING

#include <stdio.h>

int main(){

int i,j,k,n=6,indeg[6]={0},flag[6]={0},count=0; int a[6][6]={{0, 1, 0, 0, 0, 0},

{0, 0, 1, 1, 0, 0},

{0, 0, 0, 0, 0, 1},

{0, 0, 0, 0, 0, 1},

{1, 0, 0, 0, 0, 0},

{0, 0, 0, 0, 0, 0}}; for(i=0;i<n;i++)

{ for(j=0;j<n;j++)

{ indeg[i]=indeg[i]+a[j][i];

}

}

printf("\nThe topological order is:"); while(count<n){

for(k=0;k<n;k++){ if((indeg[k]==0) && (flag[k]==0)){

printf("%d ",(k)); flag[k]=1; } for(i=0;i<n;i++){ if(a[i][k]==1)

indeg[k]--;

}

}

count++;

}

return 0;

}