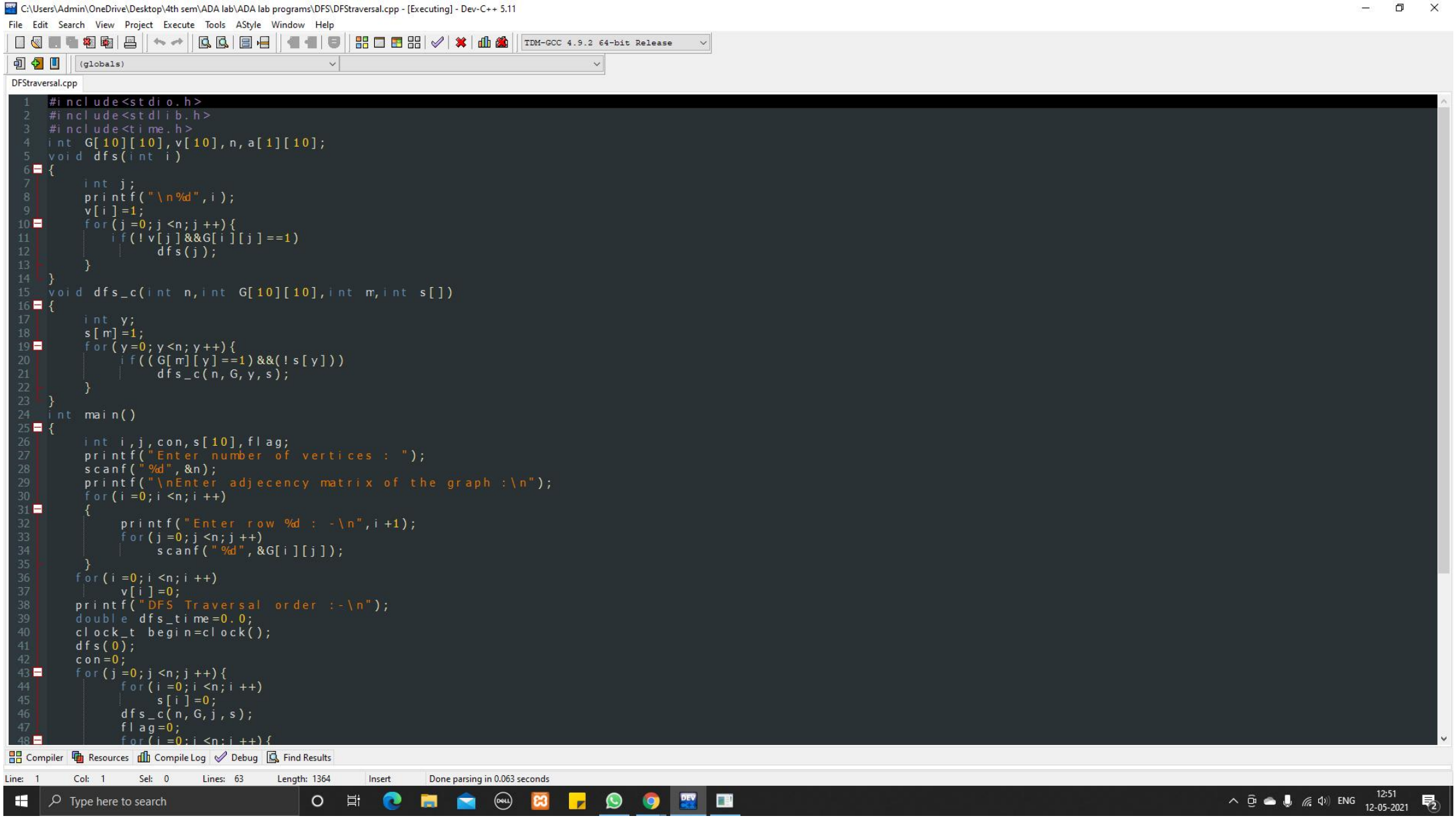
C:\Users\Admin\OneDrive\Desktop\4th sem\ADA lab\ADA lab programs\DFS\DFStraversal.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
DFStraversal.cpp
#include<stdio.h>
#include<stdlib.h>
#include<time.h>
int G[10][10],v[10],n,a[1][10];
void dfs(int i)
{
int j;
printf("\n%d",i);
v[i]=1;
for(j=0;j<n;j++){
if(!v[j]&&G[i][j]==1)
dfs(j);
}
}
void dfs_c(int n,int G[10][10],int m,int s[])
{
int y;
s[m]=1;
for(y=0;y<n;y++){
if((G[m][y]==1)&&(!s[y]))
dfs_c(n,G,y,s);
}
}
int main()
{
int i,j,con,s[10],flag;
printf("Enter number of vertices : ");
scanf("%d",&n);
printf("\nEnter adjecency matrix of the graph :\n");
for(i=0;i<n;i++)
{
printf("Enter row %d : -\n",i+1);
for(j=0;j<n;j++)
scanf("%d",&G[i][j]);
}
for(i=0;i<n;i++)
v[i]=0;
printf("DFS Traversal order :-\n");
double dfs_time=0.0;
clock_t begin=clock();
dfs(0);
con=0;
for(j=0;j<n;j++){
for(i=0;i<n;i++)
s[i]=0;
dfs_c(n,G,j,s);
flag=0;
for(i=0;i<n;i++){
Compiler Resources Compile Log Debug Find Results
Line: 1 Col: 1 Sel: 0 Lines: 63 Length: 1364 Insert Done parsing in 0.063 seconds
Type here to search
ENG
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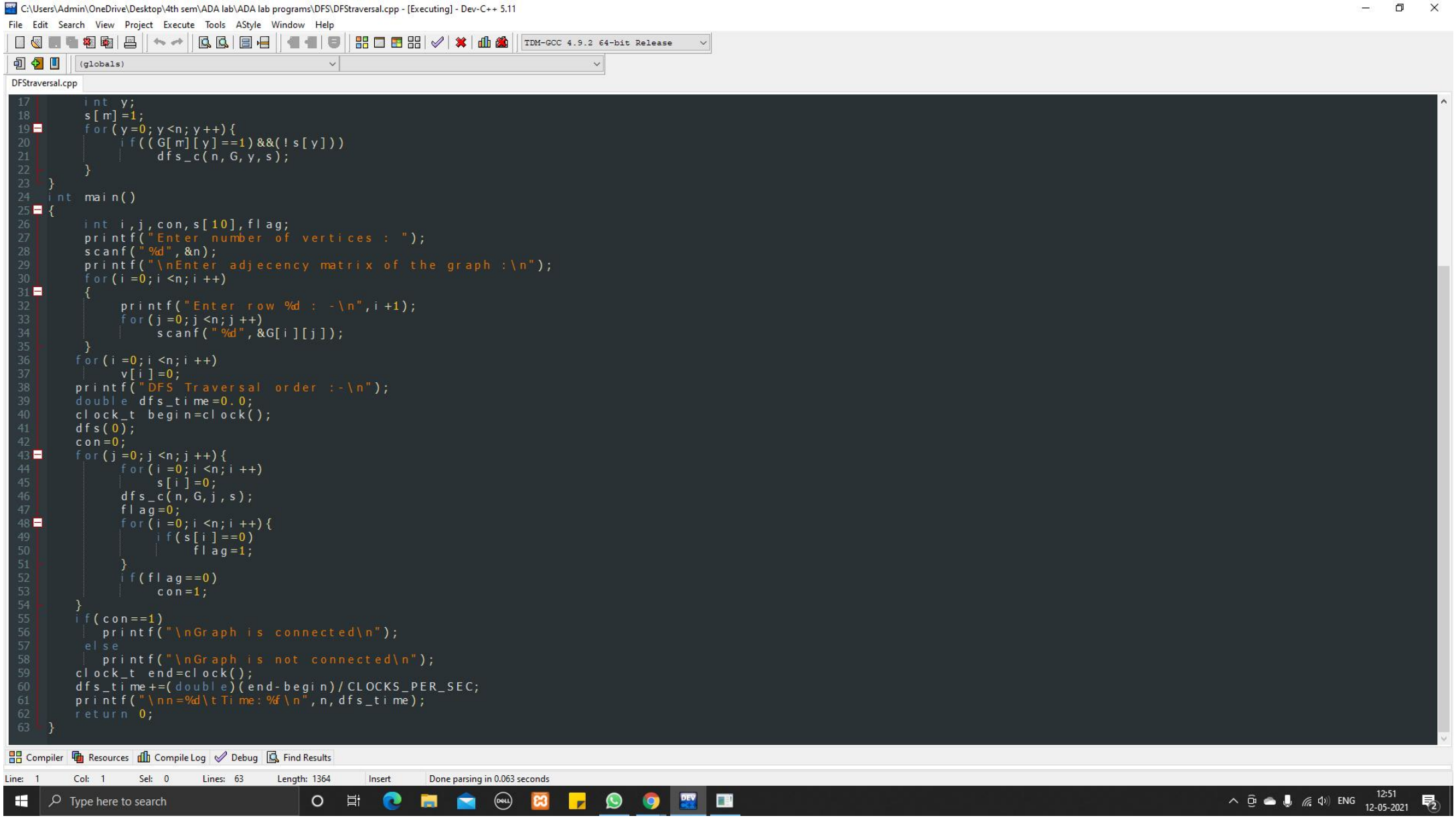
12-05-2021


C:\Users\Admin\OneDrive\Desktop\4th sem\ADA lab\ADA lab programs\DFS\DFStraversal.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
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for(i=0;i<n;i++)
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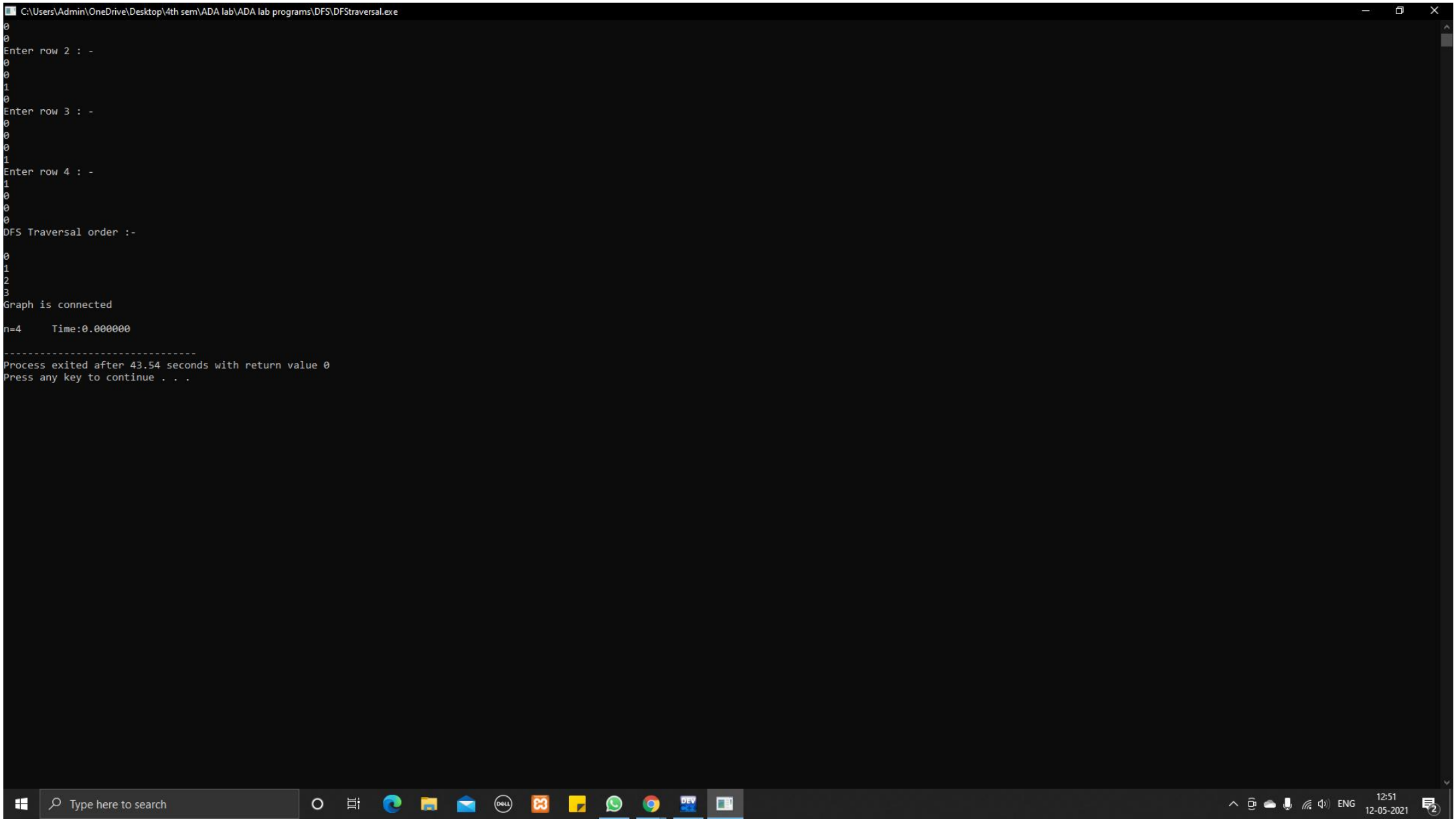
clock_t begin=clock();
dfs(0);
con=0;
for(j=0;j<n;j++){
for(i=0;i<n;i++)
s[i]=0;
dfs_c(n,G,j,s);
flag=0;
for(i=0;i<n;i++){
if(s[i]==0)
flag=1;
}
if(flag==0)
con=1;
}
if(con==1)
printf("\nGraph is connected\n");
else
printf("\nGraph is not connected\n");
clock_t end=clock();
dfs_time+=(double)(end-begin)/CLOCKS_PER_SEC;
printf("\nn=%d\tTime:%f\n",n,dfs_time);
return 0;
}
Compiler Resources Compile Log Debug Find Results
Line: 1 Col: 1 Sel: 0 Lines: 63 Length: 1364 Insert Done parsing in 0.063 seconds
Type here to search
ENG
12:51
12-05-2021


C:\Users\Admin\OneDrive\Desktop\4th sem\ADA lab\ADA lab programs\DFS\DFStraversal.exe
0
0
Enter row 2 : -
0
0
1
0
Enter row 3 : -
0
0
0
1
Enter row 4 : -
1
0
0
0
DFS Traversal order :-
0
1
2
3
Graph is connected
n=4 Time:0.000000
Process exited after 43.54 seconds with return value 0
Press any key to continue . . .
Type here to search
ENG
12:51
12-05-2021

Book1 - Excel

Sohan Kumar

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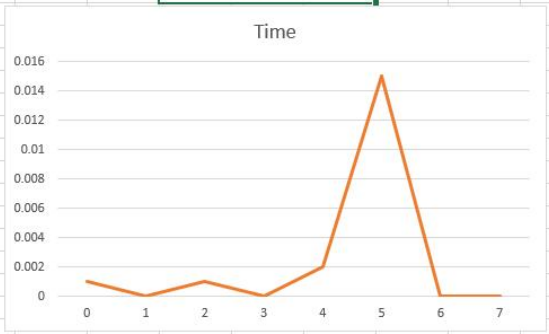
Paste Cut Copy Format Painter | Calibri 11 | Wrap Text | Merge & Center | General | Conditional Formatting | Format as Table | Normal | Bad | Good | Neutral | Calculation | Check Cell | Explanatory ... | Input | Linked Cell | Note | Insert | Delete | Format | AutoSum | Fill | Clear | Sort & Filter | Find & Select

Clipboard Font Alignment Number Styles Cells Editing

N1 DFS Traversal

No. of Vertices	Time
0	0.001
1	0
2	0.001
3	0
4	0.002
5	0.015
6	0
7	0

DFS Traversal



Sheet1

Ready 100%

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