

Central University of Haryana

School of Engineering and Technology
Department of Computer Science Engineering



Object Oriented Programming using C++ Lab Assignment - 01

Submitted by

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Course :- **OOPS Lab**

Course Code :- **BT CS 405**

Submitted to

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Assignment - 01

a) Problem statement:

Write a program to read matrix of size $m \times n$ from the keyboard and display the same using function.

b) Code:

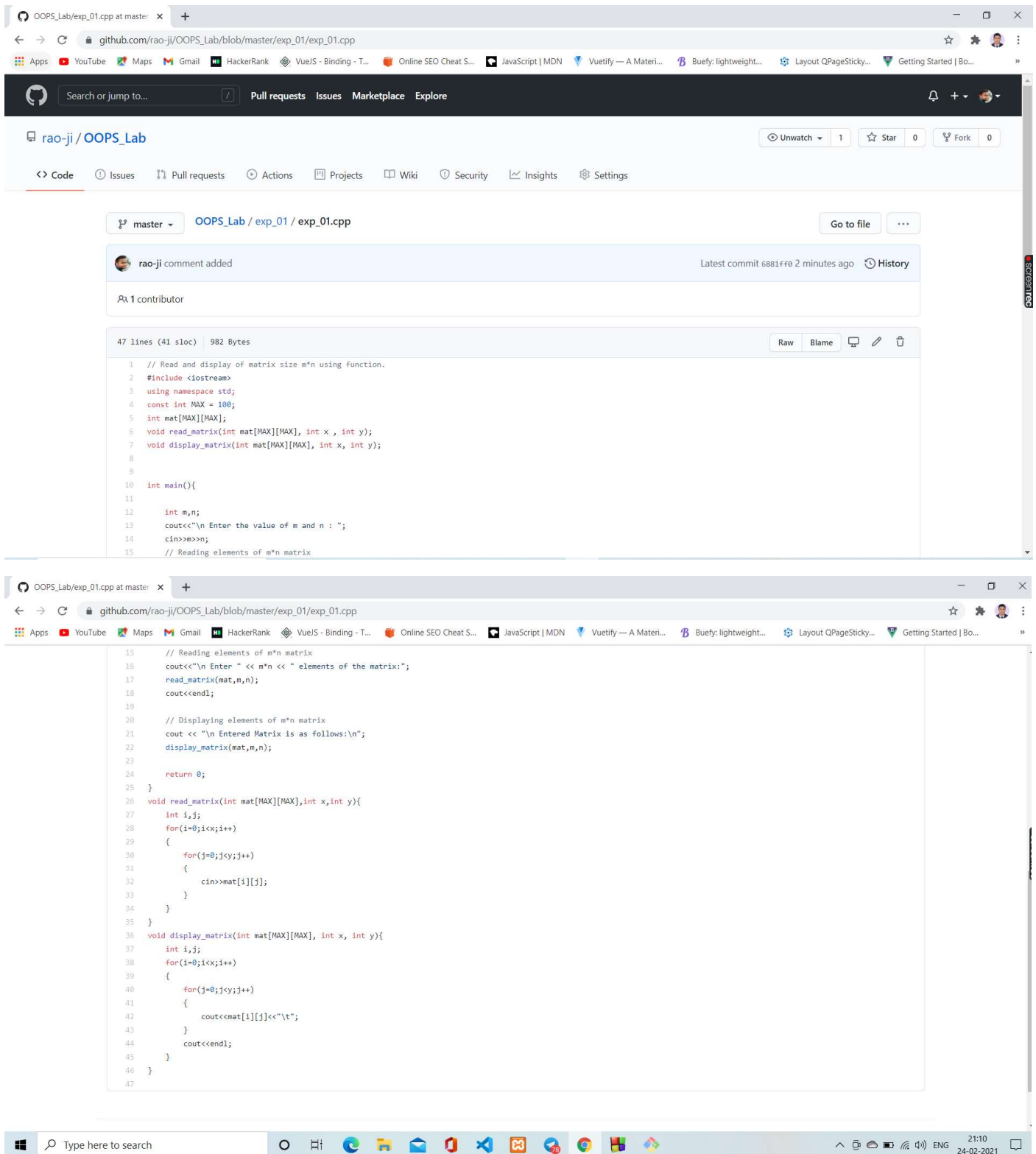
```
// Read and display of matrix size m*n using function.
#include <iostream>
using namespace std;
const int MAX = 100;
int mat[MAX][MAX];
void read_matrix(int mat[MAX][MAX], int x, int y);
void display_matrix(int mat[MAX][MAX], int x, int y);

int main(){
    int m,n;
    cout<<"\n Enter the value of m and n : ";
    cin>>m>>n;
    // Reading elements of m*n matrix
    cout<<"\n Enter " << m*n << " elements of the matrix:";
    read_matrix(mat,m,n);
    cout<<endl;
    // Displaying elements of m*n matrix
    cout << "\n Entered Matrix is as follows:\n";
    display_matrix(mat,m,n);
    return 0;
}

void read_matrix(int mat[MAX][MAX],int x,int y){
    int i,j;
    for(i=0;i<x;i++) {
        for(j=0;j<y;j++) {
            cin>>mat[i][j];
        }
    }
}

void display_matrix(int mat[MAX][MAX], int x, int y){
    int i,j;
    for(i=0;i<x;i++) {
        for(j=0;j<y;j++) {
            cout<<mat[i][j]<<"\t";
        }
        cout<<endl;
    }
}
```

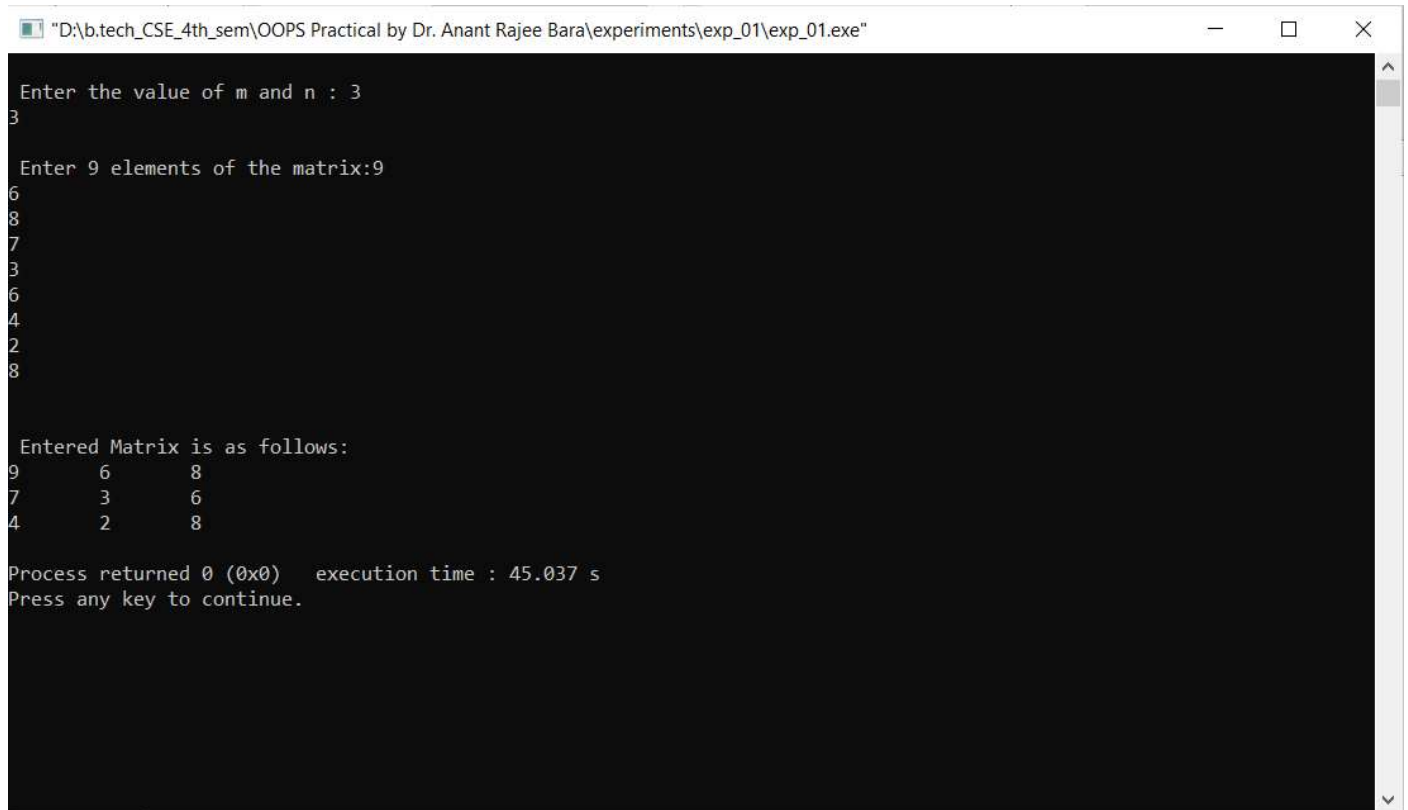
Screenshot of code after uploading on Github:



Link of Github Repository:

https://github.com/rao-ji/OOPS_Lab/blob/master/exp_01/exp_01.cpp

c) Output :



```
"D:\b.tech_CSE_4th_sem\OOPS Practical by Dr. Anant Rajee Bara\experiments\exp_01\exp_01.exe"

Enter the value of m and n : 3
3

Enter 9 elements of the matrix:9
6
8
7
3
6
4
2
8

Entered Matrix is as follows:
9      6      8
7      3      6
4      2      8

Process returned 0 (0x0)   execution time : 45.037 s
Press any key to continue.
```