



Central University of Haryana

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Branch: CSE 2nd year (4th Sem)

Subject: OOPS LAB (BT CS 405)

Submitted to: Dr. Anant Rajee Bara

Program Title: Write a program to read a matrix of size $m \times n$ from the keyboard and display the name using function

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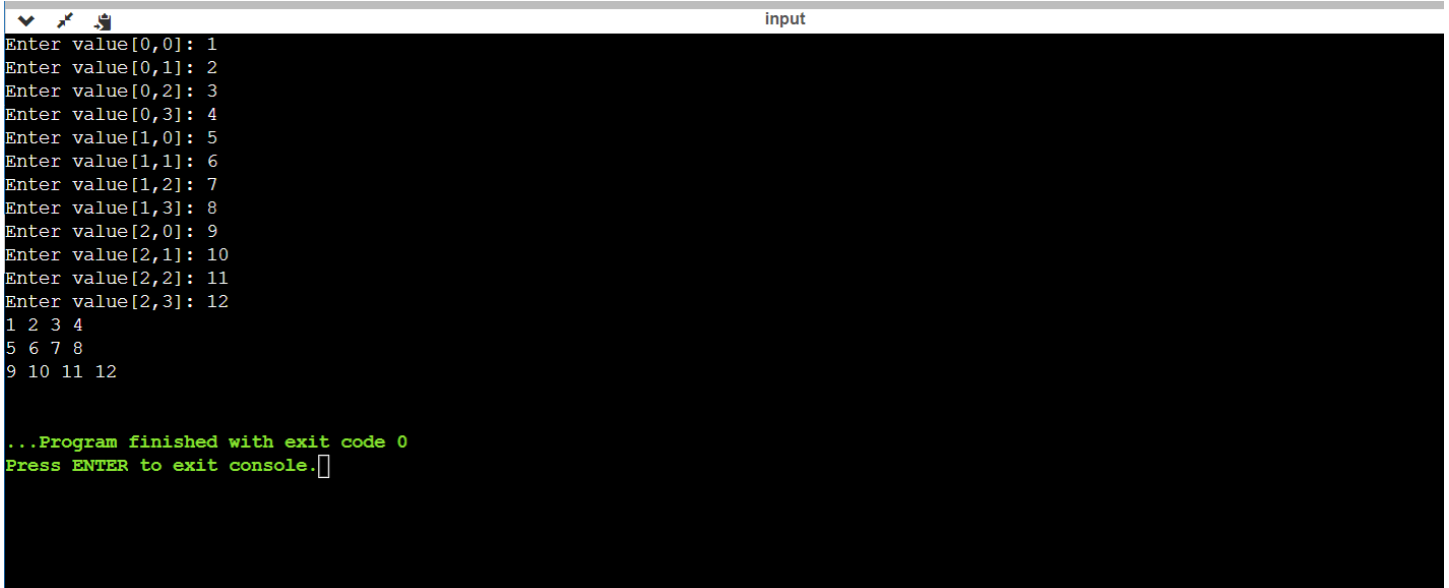
```
1 // Taking input of matrix and displaying it
2 #include <iostream>
3 using namespace std;
4
5 class Matrix{
6     private:
7         int rows=0;
8         int columns=0;
9         int * matrix = NULL;
10    public:
11        Matrix(int row,int col){
12            rows = row;
13            columns = col;
14            matrix = new int[rows * columns];
15        }
16        void take_input(){
17            for(int i=0;i<(rows);i++){
18                for(int j=0;j<(columns);j++){
19                    cout<<"Enter value["<i<<" "<<j<<": ";
20                    cin>>matrix[i * columns + j];
21                }
22            }
23        }
24        void display(){
25            for(int i=0;i<(rows);i++){
26                for(int j=0;j<(columns);j++){
27                    cout<<matrix[i*columns +j]<<" ";
28                }
29                cout<<endl;
30            }
31        }
32    };
33
34
35 int main()
36 {
37     Matrix m1(3,4);
38     m1.take_input();
39     m1.display();
40
41
42     return 0;
43 }
```



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Output



```
Enter value[0,0]: 1
Enter value[0,1]: 2
Enter value[0,2]: 3
Enter value[0,3]: 4
Enter value[1,0]: 5
Enter value[1,1]: 6
Enter value[1,2]: 7
Enter value[1,3]: 8
Enter value[2,0]: 9
Enter value[2,1]: 10
Enter value[2,2]: 11
Enter value[2,3]: 12
1 2 3 4
5 6 7 8
9 10 11 12

...Program finished with exit code 0
Press ENTER to exit console.
```

<https://github.com/Saikumar-202075/oops-lab>