

Topic

Date

University of Delhi - Open Book Examination
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EXAMINATION ROLL NO. : 20003570032

COURSE NAME : (570) - (CBCS) B.Sc. (Hons.) Computer Science

SEMESTER : I

PAPER ID : 32341101

TITLE OF PAPER : Programming Fundamentals Using C++

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TIME : 9:30 am

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ANSWER 2 :CODE :

#include <iostream>

using namespace std;

void setData (int array[][100], int a, int b)
{for (int i=0; i<a; i++)
{for (int j=0; j<b; j++)
{

cout << "Enter Element [" << i << "][" << j << "]: ";

cin >> array[i][j];

}

}

}

void PrintData (int array[][100], int a, int b)
{

cout << "The Matrix is: \n";

for (int i=0; i<a; i++)
{for (int j=0; j<b; j++)
{

cout << array[i][j] << " ";

}

cout << "\n";

}

}

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```
float getAverage(int array[][100], int a, int b)
{
    int sum = 0;
    for (int i = 0; i < a; i++)
    {
        for (int j = 0; j < b; j++)
        {
            sum = sum + array[i][j]
        }
    }
    float avg;
    avg = float(sum) / float(a) * float(b);
    return avg;
}
```

```
Void findMax(int array[][100], int x, int y)
{
    for (int i = 0; i < y; i++)
    {
        int largest = array[i][0];
        for (int j = 0; j < x; j++)
        {
            if (array[j][i] > largest)
            {
                largest = array[j][i];
            }
        }
        cout << "Max element of column" << x << "is" <<
        largest << endl;
    }
}
```

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```
int main ()
{
    cout << "Enter Dimensions of an array: ";
    int m, n;
    cout << "\n Enter Number of rows: ";
    cin >> m;
    cout << "\n Enter Number of columns: ";
    cin >> n;
    int array [100][100];
    setArrData (array, m, n);
    cout << "\n\n Printing the array: \n";
    PrintArrData (array, m, n);
    cout << "\n\n Average of the Array is: "
        << getAverage (array, m, n) << endl << endl;
    findMax (array, m, n);
    return 0;
}
```