```cpp
1    #include <iostream>
2    #include<array>
3    using namespace std;
4    int main () {
5        // an array with 5 rows and 2 columns.
6        int array[3][3];
7        int big1 = 1;
8        int k;
9        cin>>k;
10       array[0][0]=k;
11       cin>>k;
12       array[0][1]=k;
13       cin>>k;
14       array[0][2]=k;
15       cin>>k;
16       array[1][0]=k;
17       cin>>k;
18       array[1][1]=k;
19       cin>>k;
20       array[1][2]=k;
21       cin>>k;
22       array[2][0]=k;
23       cin>>k;
24       array[2][1]=k;
25       cin>>k;
26       array[2][2]=k;
27       // output each array element's value
28       for ( int row = 0; row < 3; row++ )
29          for ( int col = 0; col < 3; col++ ) {
30
31              cout << "array[" << row << "][" << col << "]: ";
32              cout << array[row][col]<< endl;
33          }
34   cout<<"\nValues of Array\n"<<endl;
35       for(int row=0;row<3;row++)
36       {
37           for (int col=0;col<3;col++)
38           {
39               cout<<array[row][col]<<" ";
40
41
42           }
43           cout<<""<<endl;
44
45       }
46
47       int max = array[0][0];
48       for(int row=0; row<3; row++)
```

```cpp
        }
        cout<<""<<endl;

    }

    int max = array[0][0];
    for(int row=0; row<3; row++)
    {
        for(int col=0; col<3; col++)
        {
            if(array[row][col]>max)
            max = array[row][col];
        }

    }

    int min = array[0][0];
    for(int row=0; row<3; row++)
    {
        for(int col=0; col<3; col++)
        {
            if(array[row][col]<min)
            min = array[row][col];
        }

    }
    cout<<"Maximum number is = "<<max<<endl;
    cout<<"Minimum number is = "<<min<<endl;



    return 0;
}
```

output

```
kashiii@kashiii-Latitude-E7450:~/Documents$ cd "/home/kashiii/Documents"
kashiii@kashiii-Latitude-E7450:~/Documents$ ./"array"
1
2
3
4
5
6
7
8
9
array[0][0]: 1
array[0][1]: 2
array[0][2]: 3
array[1][0]: 4
array[1][1]: 5
array[1][2]: 6
array[2][0]: 7
array[2][1]: 8
array[2][2]: 9

Values of Array

1 2 3
4 5 6
7 8 9
Maximum number is = 9
Minimum number is = 1
kashiii@kashiii-Latitude-E7450:~/Documents$
```

```
kashiii@kashiii-Latitude-E7450:~/Documents$ cd "/home/kashiii/Documents"
kashiii@kashiii-Latitude-E7450:~/Documents$ ./"array"
99
77
55
44
999
0
8
7
6
array[0][0]: 99
array[0][1]: 77
array[0][2]: 55
array[1][0]: 44
array[1][1]: 999
array[1][2]: 0
array[2][0]: 8
array[2][1]: 7
array[2][2]: 6

Values of Array

99 77 55
44 999 0
8 7 6
Maximum number is = 999
Minimum number is = 0
kashiii@kashiii-Latitude-E7450:~/Documents$
```

```cpp
1    #include <iostream>
2    using namespace std;
3
4    int main()
5    {
6        int r=3, c=3, a[100][100], b[100][100], sum[100][100], i, j;
7
8        cout << endl << "Enter elements of 1st matrix: " << endl;
9
10       for(i = 0; i < r; ++i)
11           for(j = 0; j < c; ++j)
12           {
13               cout << "Enter element a" << i + 1 << j + 1 << " : ";
14               cin >> a[i][j];
15           }
16
17       // Storing elements of second matrix entered by user.
18       cout << endl << "Enter elements of 2nd matrix: " << endl;
19       for(i = 0; i < r; ++i)
20           for(j = 0; j < c; ++j)
21           {
22               cout << "Enter element b" << i + 1 << j + 1 << " : ";
23               cin >> b[i][j];
24           }
25
26       // Adding Two matrices
27       for(i = 0; i < r; ++i)
28           for(j = 0; j < c; ++j)
29               sum[i][j] = a[i][j] + b[i][j];
30
31       // Displaying the resultant sum matrix.
32       cout << endl << "Sum of two matrix is: " << endl;
33       for(i = 0; i < r; ++i)
34           for(j = 0; j < c; ++j)
35           {
36               cout << sum[i][j] << "  ";
37               if(j == c - 1)
38                   cout << endl;
39           }
40
41       return 0;
42   }
43
```

output

```
kashiii@kashiii-Latitude-E7450:~/Documents$ cd "/home/kashiii/Documents"
kashiii@kashiii-Latitude-E7450:~/Documents$ ./"2Darrayaddition"

Enter elements of 1st matrix:
Enter element a11 : 11
Enter element a12 : 22
Enter element a13 : 33
Enter element a21 : 44
Enter element a22 : 55
Enter element a23 : 66
Enter element a31 : 77
Enter element a32 : 88
Enter element a33 : 99

Enter elements of 2nd matrix:
Enter element b11 : 1
Enter element b12 : 2
Enter element b13 : 3
Enter element b21 : 4
Enter element b22 : 5
Enter element b23 : 6
Enter element b31 : 7
Enter element b32 : 8
Enter element b33 : 9

Sum of two matrix is:
12   24   36
48   60   72
84   96   108
kashiii@kashiii-Latitude-E7450:~/Documents$
```

```
kashiii@kashiii-Latitude-E7450:~/Documents$ cd "/home/kashiii/Documents"
kashiii@kashiii-Latitude-E7450:~/Documents$ ./"2Darrayaddition"

Enter elements of 1st matrix:
Enter element a11 : 22
Enter element a12 : 11
Enter element a13 : 00
Enter element a21 : 99
Enter element a22 : 8
Enter element a23 : 7
Enter element a31 : 6
Enter element a32 : 5
Enter element a33 : 4

Enter elements of 2nd matrix:
Enter element b11 : 9
Enter element b12 : 8
Enter element b13 : 7
Enter element b21 : 6
Enter element b22 : 5
Enter element b23 : 4
Enter element b31 : 3
Enter element b32 : 2
Enter element b33 : 1

Sum of two matrix is:
31   19   7
105   13   11
9   7   5
```