

V

TASK 1

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     int numbers[3];
6     int maxnum=0;
7     for (int i = 0; i < 3; i++) {
8         cout << "Enter number: ";
9         cin >> numbers[i];
10    }
11    for (int i = 0; i < 3; i++) {
12        if(numbers[i]>maxnum)
13            maxnum = numbers[i];
14    }
15    cout << "The maximum number is: " << maxnum << endl;
16    return 0;
17 }
18
```

```
Enter number: 1
Enter number: 2
Enter number: 3
The maximum number is: 3

-----
Process exited after 33.33 seconds with return value 0
Press any key to continue . . .
```

```
1 #include <iostream>
2 using namespace std;
3 int main() {
4     int rows, columns;
5     int matrix[100][100];
6     cout << "Enter number of rows: ";
7     cin >> rows;
8     cout << "Enter number of columns: ";
9     cin >> columns;
10    cout << "Enter matrix elements:" << endl;
11    for (int i = 0; i < rows; i++) {
12        for (int j = 0; j < columns; j++) {
13            cin >> matrix[i][j];
14        }
15    }
16    cout << "Matrix:" << endl;
17    for (int i = 0; i < rows; i++) {
18        for (int j = 0; j < columns; j++) {
19            cout << matrix[i][j] << " ";
20            cout << endl;
21        }
22    cout << "Reversed Matrix:" << endl;
23    for (int i = rows - 1; i >= 0; i--) {
24        for (int j = columns - 1; j >= 0; j--) {
25            cout << matrix[i][j] << " ";
26        }
27        cout << endl;
28    }
29    return 0;
30 }
31
```

```
Enter number of rows: 2
Enter number of columns: 2
Enter matrix elements:
1
2
3
4
Matrix:
1 2
3 4
Reversed Matrix:
4 3
2 1
Matrix after setting last column to 0:
1 0
3 0
-----
Process exited after 7.294 seconds with return value 0
Press any key to continue . . .
```

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     int matrix[3][3], transpose[3][3];
6     cout << "Enter elements of 3x3 matrix:" << endl;
7     for(int i = 0; i < 3; i++){
8         for(int j = 0; j < 3; j++){
9             cin >> matrix[i][j];
10        }
11    }
12    cout << "matrix you entered:" << endl;
13    for(int i = 0; i < 3; i++){
14        for(int j = 0; j < 3; j++){
15            cout << matrix[i][j] << " ";
16        }
17        cout << endl;
18    }
19    for(int i = 0; i < 3; i++){
20        for(int j = 0; j < 3; j++){
21            transpose[j][i] = matrix[i][j];
22        }
23    }
24    cout << "Transpose of the matrix is:" << endl;
25    for(int i = 0; i < 3; i++){
26        for(int j = 0; j < 3; j++){
27            cout << transpose[i][j] << " ";
28        }
29        cout << endl;
30    }
31
32    return 0;
33 }
```

```
[1] Enter elements of 3x3 matrix:  
[1] 1  
[2] 2  
[j] 3  
[4] 4  
[5] 5  
[6] 6  
[7] 7  
[8] 8  
[9] 9  
matrix you entered:  
1 2 3  
4 5 6  
7 8 9  
Transpose of the matrix is:  
1 4 7  
2 5 8  
3 6 9  
-----  
Process exited after 12.98 seconds with return value 0  
Press any key to continue . . .
```