

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     }
23     cout << "Reversed Matrix:"<<endl;
24     for (int i = rows - 1; i >= 0; i--) {
25         for (int j = columns - 1; j >= 0; j--) {
26             cout << matrix[i][j] << " ";
27         }
28         cout << endl;
29     }
30     return 0;
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     }
```

```
Enter elements of 3x3 matrix:
1
2
3
4
5
6
7
8
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 . . .
```