SOURCE CODE:

```
#include<iostream>
#include<string>
#include<algorithm>
using namespace std;
// TASK 1:
void Task_1(){
    cout<<endl;</pre>
    int arr[5];
    cout<<"Enter 5 elements: \n";</pre>
    for(int i = 0; i < 5; i++){
        cin>>arr[i];
    cout<<"Enter single input n: ";</pre>
    cin>>n;
    cout<<"All elements not divisible by "<<n<<" are: ";</pre>
    for(int i = 0; i < 5; i++){
        if(arr[i] % n != 0){
             cout<<arr[i]<<" ";</pre>
void Task_2(){
    cout<<endl;</pre>
    cout<<"Enter 10 elements: \n";</pre>
    int arr[10];
    for (int i=0; i<10; i++){
        cin>>arr[i];
    int max = arr[0], min = arr[0], second_max = -99999, second_min = 99999;
    cout<<"Array Elements: ";</pre>
    for(int i = 0; i<10; i++){
        cout<<arr[i]<<" ";</pre>
    for(int i = 0; i<10; i++){
        if(arr[i]>max){
             max = arr[i];
    for(int i = 0; i<10; i++){
        if(arr[i]>second_max){
             if(arr[i]==max){
                 continue;
```

```
second_max = arr[i];
    cout<<"\n2nd max is: "<<second_max;</pre>
    for(int i = 0; i<10;i++){
        if(arr[i]<min){</pre>
            min = arr[i];
    for(int i = 0; i<10; i++){
        if(arr[i]<second_min){</pre>
             if(arr[i]==min){
                 continue;
             second_min = arr[i];
    cout<<"\n2nd min is: "<<second_min;</pre>
// TASK 3:
void Task_3(){
    cout<<endl;</pre>
    int size;
    cout << "Enter the size of the array: ";</pre>
    cin >> size;
    int arr[size];
    cout << "Enter the elements of the array: ";</pre>
    for (int i = 0; i < size; i++) {
        cin >> arr[i];
    int target;
    cout << "Enter the number to search: ";</pre>
    cin >> target;
    bool found = false;
    for (int i = 0; i < size / 2; i++) {
        if (arr[i] == target) {
            found = true;
             break;
    if (found) {
        cout << "Number found in the array." << endl;</pre>
    } else {
```

```
cout << "Number not found in the array." << endl;</pre>
// TASK 4:
void Task_4(){
    cout<<endl;</pre>
    int n;
    cout<<"How many characters you want to enter: ";</pre>
    cin>>n;
    bool found = false;
    char arr[n];
    cout<<"Enter "<<n<<" characters: ";</pre>
    for(int i=0;i<n;i++){
        cin>>arr[n];
    cout<<"Enter target subarray length: ";</pre>
    int m;
    cin>>m;
    char target[m];
    cout<<"Enter "<<m<<" target subarray characters: ";</pre>
    for (int i = 0; i < m; i++) {
        cin >> target[i];
    for (int i = 0; i <= n - m; i++) {
        int j;
        for (j = 0; j < m; j++) {
             if (arr[i + j] != target[j])
                 break;
        if (j == m) {
            found = true;
            break;
    if (found)
        cout << "Found" << endl;</pre>
    else
        cout << "Not Found" << endl;</pre>
void Task_5(){
    cout<<endl;</pre>
    int arr[3][3];
    cout<<"Enter elements: \n";</pre>
    for(int i=0;i<3;i++){
       for(int j=0;j<3;j++){
```

```
cin>>arr[i][j];
    cout<<"Entered elements are: \n";</pre>
    for(int i=0;i<3;i++){
        for(int j=0;j<3;j++){
             cout<<arr[i][j]<<" ";
        cout<<endl;</pre>
void Task 6(){
    cout<<end1;</pre>
    int arr[3][3];
    cout<<"Enter elements: \n";</pre>
    for(int i=0;i<3;i++){
        for(int j=0;j<3;j++){
             cin>>arr[i][j];
    cout<<"Entered elements are: \n";</pre>
    for(int i=0;i<3;i++){
        for(int j=0;j<3;j++){
             cout<<arr[i][j]<<" ";
        cout<<endl;</pre>
    int sum = 0, large = -9999;
    for(int i=0;i<3;i++){
        for(int j=0;j<3;j++){
             sum += arr[i][j];
    for(int i=0;i<3;i++){
        for(int j=0;j<3;j++){</pre>
             if(arr[i][j]>large){
                 large = arr[i][j];
    cout<<"\nSum of all the elements is: "<<sum;</pre>
    cout<<"\nLargest Number in the array is: "<<large;</pre>
// Main:
int main(){
```

```
cout << "\033[1;31m\t-> Task 1\033[0m" << std::endl;</pre>
Task_1();
cout<<endl;</pre>
cout << "\033[1;32m\t-> Task 2\033[0m" << std::endl;</pre>
Task_2();
cout<<endl;</pre>
cout << "\033[1;33m\t-> Task 3\033[0m" << std::endl;</pre>
Task_3();
cout<<endl;</pre>
cout << "\033[1;34m\t-> Task 4\033[0m" << std::endl;</pre>
Task_4();
cout<<endl;</pre>
cout << "\033[1;35m\t-> Task 5\033[0m" << std::endl;</pre>
Task_5();
cout<<endl;</pre>
cout << "\033[1;36m\t-> Task 6\033[0m" << std::endl;</pre>
Task_6();
cout<<endl;</pre>
return 0;
```

OUTPUT:

```
-> Task 1

Enter 5 elements:
1
2
3
4
5
Enter single input n: 2
All elements not divisible by 2 are: 1 3 5
```

```
-> Task 2

Enter 10 elements:
1
2
3
4
5
6
7
8
9
10
Array Elements: 1 2 3 4 5 6 7 8 9 10
2nd max is: 9
2nd min is: 2
```

```
-> Task 3

Enter the size of the array: 3

Enter the elements of the array: 1

2

3

Enter the number to search: 1

Number found in the array.
```

```
-> Task 4

How many characters you want to enter: 6
Enter 6 characters: s
a
a
d
i
s
Enter target subarray length: 2
Enter 2 target subarray characters: u
g
Not Found
```

```
-> Task 5

Enter elements:
1
2
3
4
5
6
7
8
9
Entered elements are:
1 2 3
4 5 6
7 8 9
```

```
-> Task 6

Enter elements:
1
2
3
4
5
6
7
8
9
Entered elements are:
1 2 3
4 5 6
7 8 9

Sum of all the elements is: 45
Largest Number in the array is: 9
```