Task 1

```cpp
#include<iostream>
using namespace std;
int main()
{
    int arr[5] = {10, 7, 3, 10, 9};
    int mostRepeatedNumber = arr[0];
    int maxCount = 1;
    for(int i = 0; i <= 4; i++)
    {
        int temp = arr[i];
        int count = 1;
        for(int j = i + 1; j <= 4; j++)
        {
            if(arr[j] == temp)
            {
                count++;
            }
        }
        if(count > maxCount)
        {
            maxCount = count;
            mostRepeatedNumber = temp;
        }
    }
    cout << mostRepeatedNumber << " is the most repeated number with " << maxCount << "
occurrences." << endl;
    return 0;
}
```

```cpp
4 {
5      int arr[5] = {10, 7, 3, 10, 9};
6      int mostRepeatedNumber = arr[0];
7      int maxCount = 1;
8      for(int i = 0; i <= 4; i++)
9      {
10         int temp = arr[i];
11         int count = 1;
12         for(int j = i + 1; j <= 4; j++)
13         {
14             if(arr[j] == temp)
15             {
16                 count++;
17             }
18         }
19         if(count > maxCount)
20         {
21             maxCount = count;
22             mostRepeatedNumber = temp;
23         }
24     }
25     cout << mostRepeatedNumber << " is the most repeated number with " << maxCount << " occurrences." << endl;
26     return 0;
27 }
28
29
```

input

```
10 is the most repeated number with 2 occurrences.


...Program finished with exit code 0
Press ENTER to exit console.
```

TASK 2
#include <iostream>

using namespace std;

int main() {
    int a[8] = {13, 15, 17, 9, 99, 77, 65, 43};
    int max = a[0];
    int min = a[0];
    for (int i = 1; i < 8; ++i) {
        if (a[i] > max) {

```cpp
            max = a[i];
        }
        if (a[i] < min) {
            min = a[i];
        }
    }
    cout << "Maximum value: " << max << endl;
    cout << "Minimum value: " << min << endl;
    return 0;
}
```

```cpp
main.cpp
1    #include <iostream>
2
3    using namespace std;
4
5    int main() {
6        int a[8] = {13, 15, 17, 9, 99, 77, 65, 43};
7        int max = a[0];
8        int min = a[0];
9        for (int i = 1; i < 8; ++i) {
10            if (a[i] > max) {
11                max = a[i];
12            }
13            if (a[i] < min) {
14                min = a[i];
15            }
16        }
17        cout << "Maximum value: " << max << endl;
18        cout << "Minimum value: " << min << endl;
19        return 0;
20   }
21   
```

```
Maximum value: 99
Minimum value: 9


...Program finished with exit code 0
Press ENTER to exit console.
```

TASK 3

```cpp
#include <iostream>

using namespace std;

int main() {
    int arr[5];
    cout << "Enter values:" << endl;
    for (int i = 0; i < 5; ++i) {
        cout << "Index " << i + 1 << ": ";
        cin >> arr[i];
    }
    cout << "Before:" << endl;
    for (int i = 0; i < 5; ++i) {
        cout << arr[i] << "\t";
    }
    cout << endl;
    int temp = arr[2];
    arr[2] = arr[4];
    arr[4] = temp;

    cout << "After:" << endl;
    for (int i = 0; i < 5; ++i) {
        cout << arr[i] << "\t";
    }
    cout << endl;
    return 0;
}
```

```cpp
#include <iostream>

using namespace std;

int main() {
    int arr[5];
    cout << "Enter values:" << endl;
    for (int i = 0; i < 5; ++i) {
        cout << "Index " << i + 1 << ": ";
        cin >> arr[i];
    }
    cout << "Before:" << endl;
    for (int i = 0; i < 5; ++i) {
        cout << arr[i] << "\t";
    }
    cout << endl;
    int temp = arr[2];
    arr[2] = arr[4];
    arr[4] = temp;

    cout << "After:" << endl;
    for (int i = 0; i < 5; ++i) {
        cout << arr[i] << "\t";
    }
    cout << endl;
    return 0;
}
```

```
Enter values:
Index 1: 7
Index 2: 6
Index 3: 5
Index 4: 4
Index 5: 3
Before:
7       6       5       4       3
After:
7       6       3       4       5

...Program finished with exit code 0
Press ENTER to exit console.
```