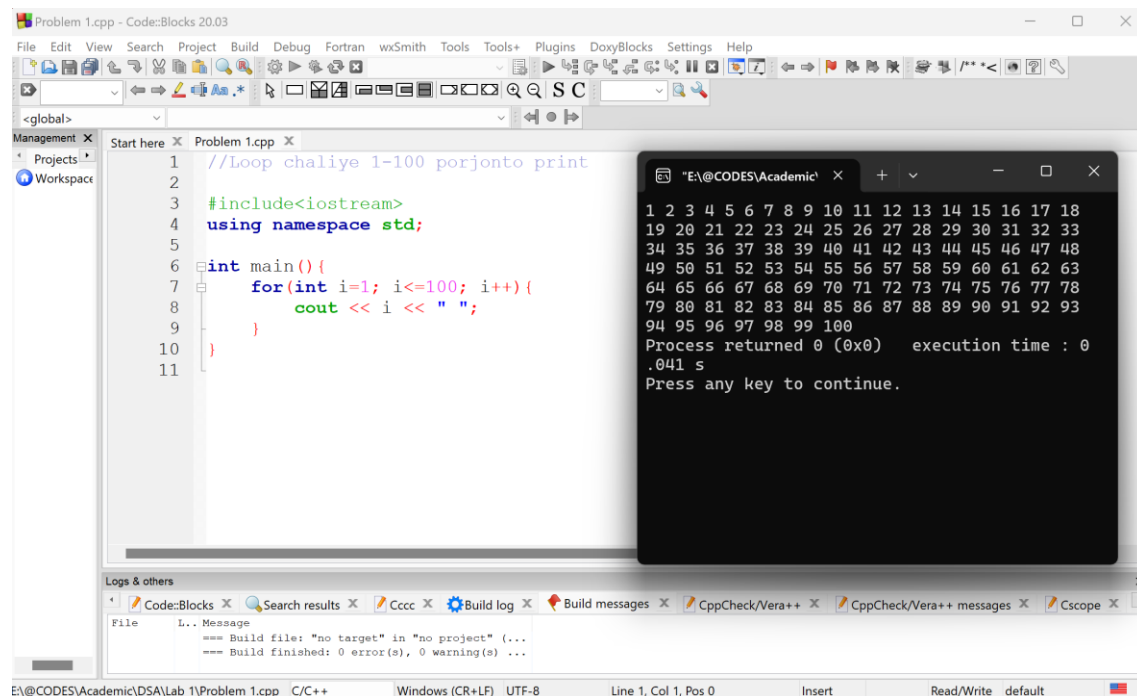


1. Problem Name: Print 1-100 numbers using loop.

Problem Code & Output:



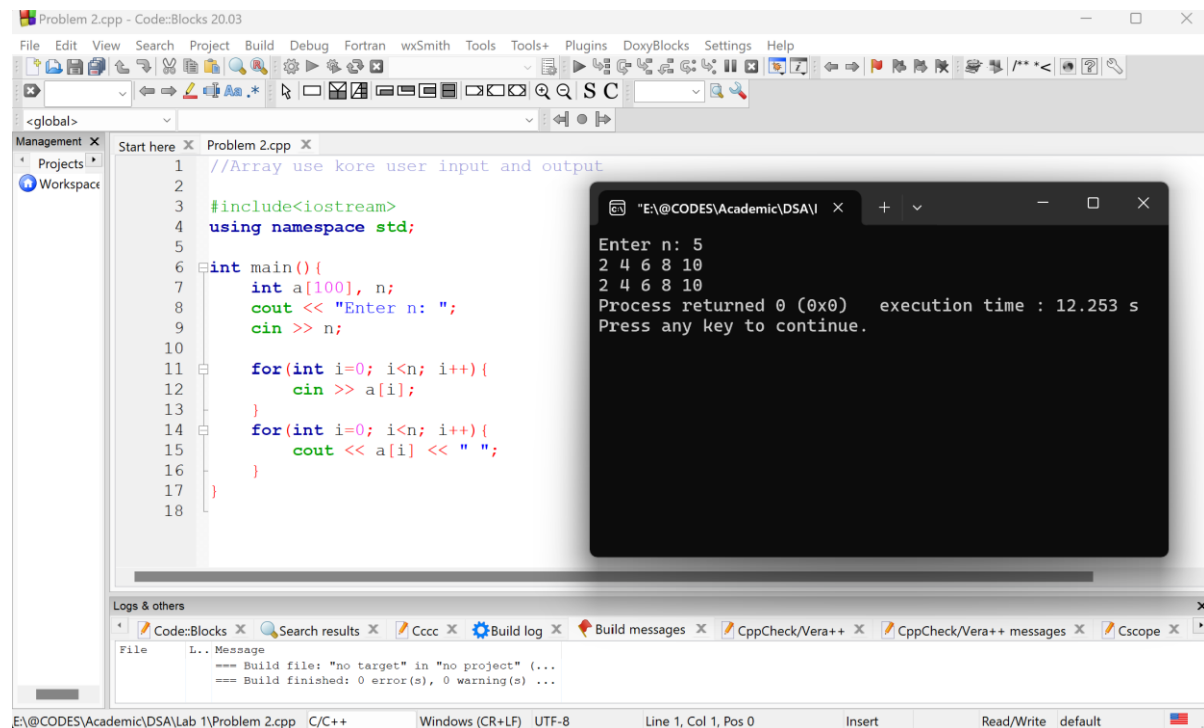
The screenshot shows the Code::Blocks IDE with a C++ file named 'Problem 1.cpp'. The code is as follows:

```
1 //Loop chaliye 1-100 porjonto print
2
3 #include<iostream>
4 using namespace std;
5
6 int main(){
7     for(int i=1; i<=100; i++){
8         cout << i << " ";
9     }
10 }
11
```

The output window shows the numbers 1 through 100 printed in a single line, separated by spaces. The process returned 0 (0x0) and the execution time was 0.041 s.

2. Problem Name: A program to input an array of user-defined size and display its elements.

Problem Code & Output:



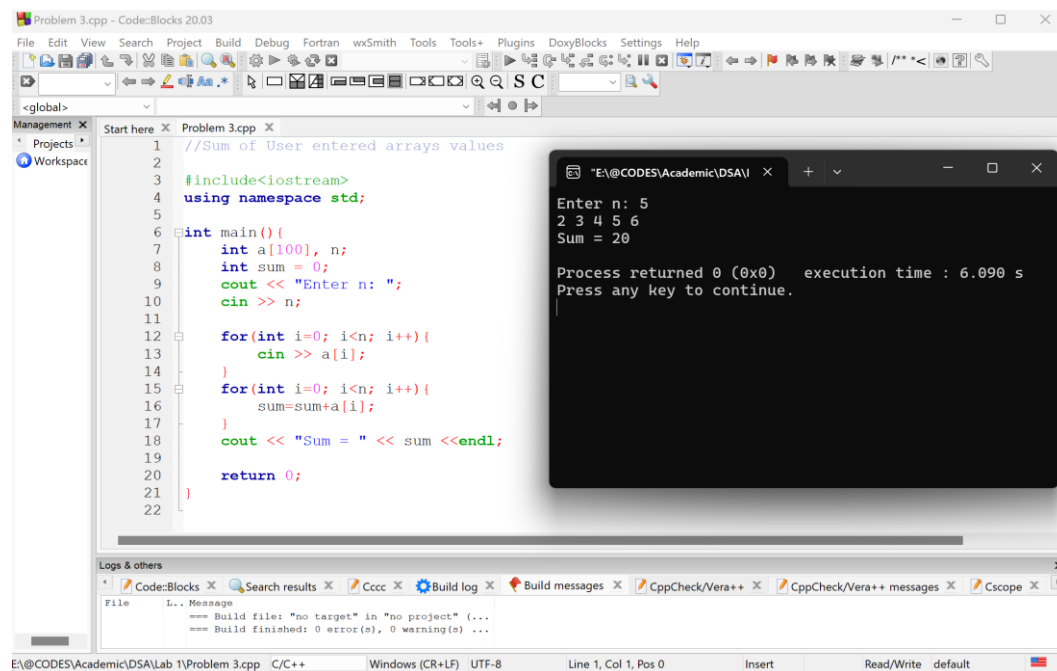
The screenshot shows the Code::Blocks IDE with a C++ file named 'Problem 2.cpp'. The code is as follows:

```
1 //Array use kore user input and output
2
3 #include<iostream>
4 using namespace std;
5
6 int main(){
7     int a[100], n;
8     cout << "Enter n: ";
9     cin >> n;
10
11     for(int i=0; i<n; i++){
12         cin >> a[i];
13     }
14     for(int i=0; i<n; i++){
15         cout << a[i] << " ";
16     }
17 }
18
```

The output window shows the user input '5' for the size of the array, followed by the numbers '2 4 6 8 10' which are the elements of the array. The process returned 0 (0x0) and the execution time was 12.253 s.

3. **Problem Name:** A program to input an array of user-defined size, calculate the sum of its elements, and display the result.

Problem Code & Output:



The screenshot shows the Code::Blocks IDE with a C++ program for calculating the sum of an array. The code is as follows:

```
1 //Sum of User entered arrays values
2
3 #include<iostream>
4 using namespace std;
5
6 int main(){
7     int a[100], n;
8     int sum = 0;
9     cout << "Enter n: ";
10    cin >> n;
11
12    for(int i=0; i<n; i++){
13        cin >> a[i];
14    }
15    for(int i=0; i<n; i++){
16        sum=sum+a[i];
17    }
18    cout << "Sum = " << sum << endl;
19
20    return 0;
21
22 }
```

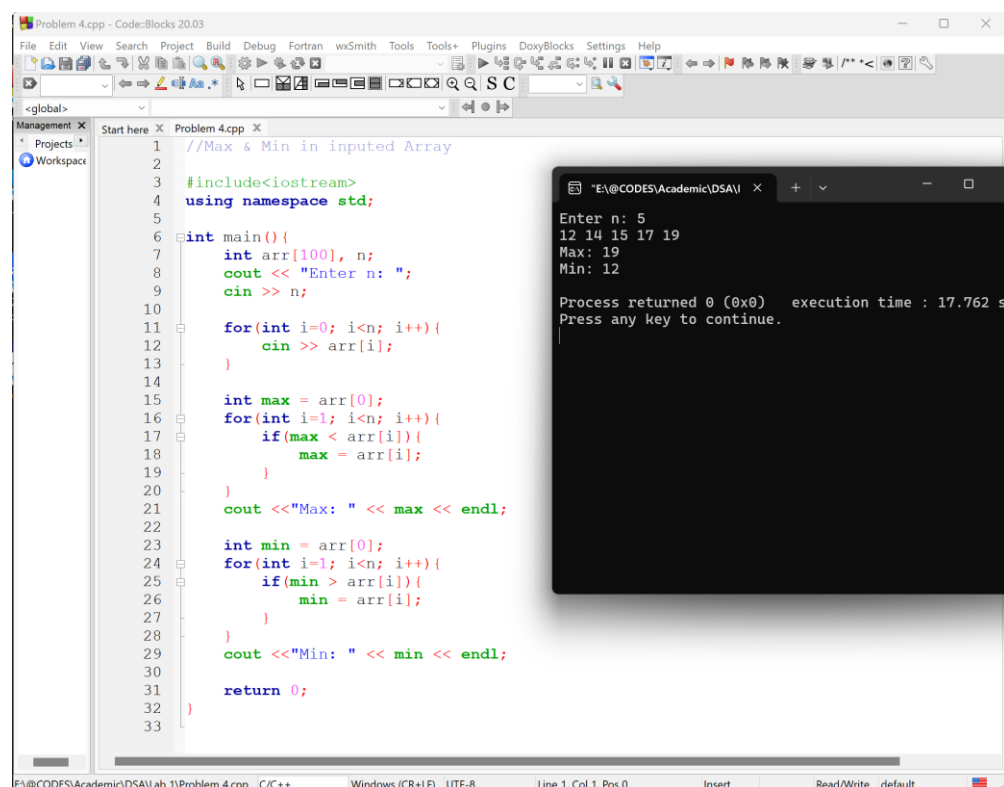
The output window shows the following execution:

```
Enter n: 5
2 3 4 5 6
Sum = 20

Process returned 0 (0x0)   execution time : 6.090 s
Press any key to continue.
```

4. **Problem Name:** A program to input an array of user-defined size, find the maximum and minimum elements, and display them.

Problem Code & Output:



The screenshot shows the Code::Blocks IDE with a C++ program for finding the maximum and minimum elements in an array. The code is as follows:

```
1 //Max & Min in inputted Array
2
3 #include<iostream>
4 using namespace std;
5
6 int main(){
7     int arr[100], n;
8     cout << "Enter n: ";
9     cin >> n;
10
11    for(int i=0; i<n; i++){
12        cin >> arr[i];
13    }
14
15    int max = arr[0];
16    for(int i=1; i<n; i++){
17        if(max < arr[i]){
18            max = arr[i];
19        }
20    }
21    cout << "Max: " << max << endl;
22
23    int min = arr[0];
24    for(int i=1; i<n; i++){
25        if(min > arr[i]){
26            min = arr[i];
27        }
28    }
29    cout << "Min: " << min << endl;
30
31    return 0;
32
33 }
```

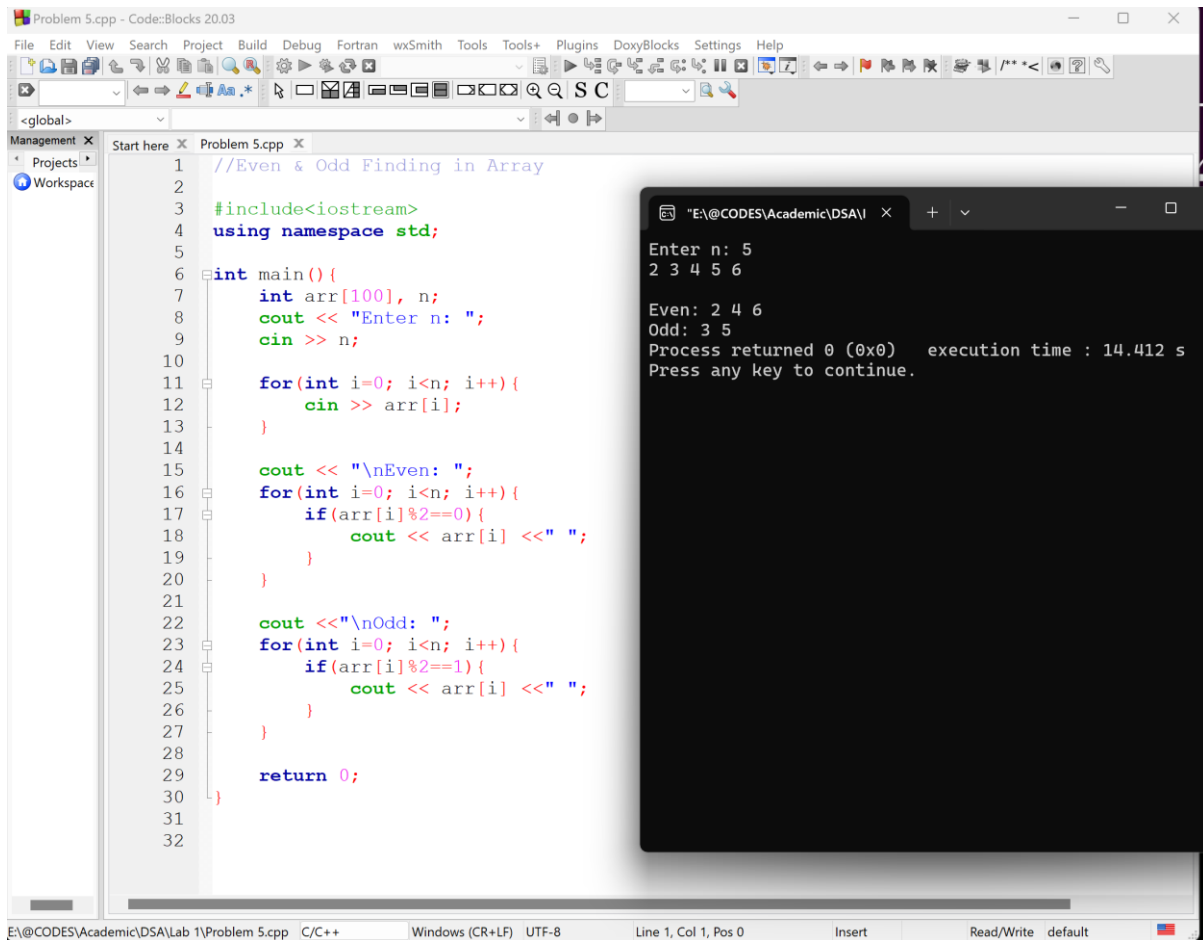
The output window shows the following execution:

```
Enter n: 5
12 14 15 17 19
Max: 19
Min: 12

Process returned 0 (0x0)   execution time : 17.762 s
Press any key to continue.
```

5. **Problem Name:** A program to input an array of user-defined size, separate the even and odd elements, and display them accordingly.

Problem Code & Output:



The screenshot displays the Code::Blocks IDE with a C++ program titled "Problem 5.cpp". The code is designed to find and display even and odd elements from a user-defined array. The program uses `std::cin` to take input for the array size `n` and the elements themselves. It then iterates through the array, checking each element's parity using the modulo operator (`%`). Even elements are printed first, followed by odd elements. The terminal window shows the execution of the program with the input `5` for `n` and the array `2 3 4 5 6`. The output correctly lists the even elements `2 4 6` and the odd elements `3 5`. The terminal also shows the process returning `0` and an execution time of `14.412 s`.

```
1 //Even & Odd Finding in Array
2
3 #include<iostream>
4 using namespace std;
5
6 int main(){
7     int arr[100], n;
8     cout << "Enter n: ";
9     cin >> n;
10
11     for(int i=0; i<n; i++){
12         cin >> arr[i];
13     }
14
15     cout << "\nEven: ";
16     for(int i=0; i<n; i++){
17         if(arr[i]%2==0){
18             cout << arr[i] << " ";
19         }
20     }
21
22     cout << "\nOdd: ";
23     for(int i=0; i<n; i++){
24         if(arr[i]%2==1){
25             cout << arr[i] << " ";
26         }
27     }
28
29     return 0;
30 }
31
32
```

Enter n: 5
2 3 4 5 6

Even: 2 4 6
Odd: 3 5
Process returned 0 (0x0) execution time : 14.412 s
Press any key to continue.