


## Lab task no : 02

Name :M Qasim

Roll no: 010

 C:\Users\dell\Desktop\lab tasks\LAB TASK 01.exe

```
Maximum value: 20
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Process exited after 0.1059 seconds with return value 0
Press any key to continue . . .
```

Explanation is :

This C++ program finds the maximum value within an integer array. It initializes a `maxVal` to the first array element. A `for` loop then iterates through the remaining elements, comparing each to `maxVal`. If a larger value is found, `maxVal` is updated. Finally, the program prints the determined maximum value. The time complexity is  $O(n)$  because the loop examines each element once.