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**Section: SE 3A**

**Subject: Data Structure and Algorithms**

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**Submission Date:**

**Assignment 2**

**DSA LAB TASK’S**

**LAB 2:**

**Task:** Finding the time complexity of the program;

**Explanation:**

### What's Happening?

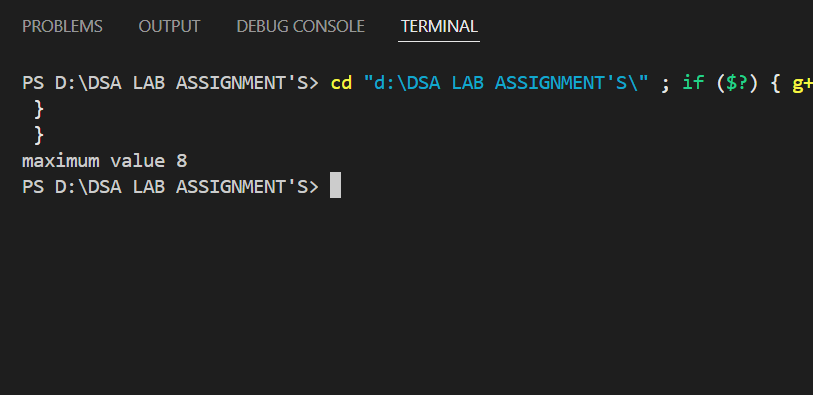
The program finds the largest number in an array by checking each number one by one.

**Time Complexity (O (n)):**

* **O (n)** means the time it takes grows with the size of the array.
* If the array has 5 numbers, it checks 5 times. If there are 100, it checks 100 times.
* As the array gets bigger, the time increases directly with the size.

In short: The program checks each number in the array, so the time increases linearly with the array size (O (n)).

**Output**

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