

## CSA0670-Design and Analysis of Algorithms for Tractability Problems.

4. Write a program to get the largest element of an array.

Program:

```
def get_largest_element(arr):  
    if len(arr) == 0:  
        return None  
  
    largest = arr[0]  
    for num in arr:  
        if num > largest:  
            largest = num  
    return largest  
  
array = [3, 5, 2, 8, 1, 9, 4]  
largest_element = get_largest_element(array)  
print("The largest element in the array is:", largest_element)
```

Output:

The Largest element in the array is: 9

Time Complexity:  $O(n)$