## **Experiment 5**

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**Branch: CSE** 

Semester: 6<sup>th</sup>

**Subject Name: Advanced Programming - 2** 

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Section/Group: 637-B

Date of Performance: 20/2/25

Subject Code: 22CSH-351

## Ques 1:

Aim: Kth Largest Element in an Array

## Code:

```
class Solution:
def findKthLargest(self, nums: List[int], k: int) -> int:
   def quick_sort(l: int, r: int) -> int:
     if 1 == r:
        return nums[1]
      i, j = 1 - 1, r + 1
      x = nums[(1 + r) >> 1]
      while i < j:
        while 1:
           i += 1
           if nums[i] >= x:
             break
        while 1:
           i = 1
           if nums[j] \le x:
             break
        if i < j:
           nums[i], nums[j] = nums[j], nums[i]
     if j < k:
        return quick_sort(j + 1, r)
     return quick_sort(l, j)
   n = len(nums)
   k = n - k
   return quick_sort(0, n - 1)
```



## **Submission Screenshot:**

