## Assignment - 05 (Week - 6)

## Question 1:

Write a java program by using the following QuickSort Pseudocodes. Your program should include a test function which generates 3 random unordered arrays of length 30 and calls the QuickSort function with these generated arrays as parameter A.

## **QuickSort Pseudocodes**

```
QUICKSORT(A, p, r)

if p < r

q = \text{PARTITION}(A, p, r)

QUICKSORT(A, p, q - 1)

QUICKSORT(A, q + 1, r)

PARTITION(A, p, r)

x = A[r]

i = p - 1

for j = p to r - 1

if A[j] \le x

i = i + 1

exchange A[i] with A[j]

return i + 1
```