

Central university of Haryana

Department of computer science & engineering under SOET



ADA lab (BT CS 505A) Lab-3.

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Lab-1: Implement quick_sort

Code:

ada  python_lab / quic_sort.py



pavan-kumar-202102 quick sort version 1

 1 contributor

26 lines (22 sloc) | 693 Bytes

```
1  import numbers
2
3
4  array=[8,7,6,1,0,9,2]
5  def partation(array,r_index,l_index):
6      pevot=array[r_index]
7      j=l_index
8      for i in range(l_index,r_index):
9          # print(j)
10         if(array[i]<=pevot):
11             array[j],array[i]=array[i],array[j]
12             j+=1
13     array[j],array[r_index]=array[r_index],array[j]
14     return j
15  def quicksort(array, r_index,l_index):
16
17      if l_index>=r_index:
18          return
19      else:
20         pivot_index=partation(array,r_index,l_index)
21         # print(l_index,r_index,pivot_index)
22         quicksort(array,pivot_index-1,l_index)
23         quicksort(array,r_index,pivot_index+1)
24
25  quicksort(array,len(array)-1,0)
26  print(array)
```

Output:

PROBLEMS OUTPUT TERMINAL JUPYTER DEBUG CONSOLE

```
PS E:\sem 5\lab program> python -u "e:\sem 5\lab program\quic_sort.py"
[0, 1, 2, 6, 7, 8, 9]
PS E:\sem 5\lab program> █
```

Github link:

https://github.com/pavan-kumar-202102/python_lab/blob/ada/quic_sort.py

