ASSIGNMENT NO:6
ROLL NO:07

```
def quicksort(a,start,s):
if(start>=s):
        return
p=partition(a,start,s)
quicksort(a,start,p-1)
    quicksort(a,p+1,s)

def partition(a,start,s):
    pivot=a[start]      low=start+1      high=s
while  True:              while(low<=high  and
a[low]<=pivot):
          low=low+1         while(low<=high
and a[high]>=pivot):
          high=high-1
if(low<=high):
          a[low],a[high]=a[high],a[low]
else:
          break
    a[start],a[high]=a[high],a[start]
return high

a=[]
s=int(input("enter the no of students:"))
count=1 for i in range(0,s):     start=int(input("enter the
percentage of the students:"))     a.append(start)
count=count+1
print(a)
print("enter choice:\n1.quicksort\n2.exit")
ch=int(input()) if
ch==1:
```

```
quicksort(a,0,s-1)
print(a) elif ch==2:
    exit else:
print("Invalid choice")
```

OUTPUT:

```
enter the no of students:4
enter the percentage of the students:96
enter the percentage of the students:85
enter the percentage of the students:74
enter the percentage of the students:12
[96, 85, 74, 12]
enter choice:
1.quicksort
2.exit
1
[12, 74, 85, 96]
```