

Python Programming
LABORATORY MANUAL
B.Tech Semester -IV
Subject Code: (KNC-402)



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Name:	KUSHAGRA JAISWAL
Roll. No.:	2000910139004
Group/Branch:	I.T-1

JSS MAHAVIDYAPEETHA
DEPARTMENT OF INFORMATION TECHNOLOGY
JSS ACADEMY OF TECHNICAL EDUCATION
C-20/1, SECTOR-62, NOIDA

OBJECT-:

To write a python program merge sort.

PROGRAM-:

```
def mergeSort(myList):
    if len(myList) > 1:
        mid = len(myList) // 2
        left = myList[:mid]
        right = myList[mid:]

        mergeSort(left)
        mergeSort(right)

        i = 0
        j = 0
        k = 0

        while i < len(left) and j < len(right):
            if left[i] <= right[j]:
                myList[k] = left[i]
                i += 1
            else:
                myList[k] = right[j]
                j += 1
            k += 1

        while i < len(left):
            myList[k] = left[i]
            i += 1
            k += 1

        while j < len(right):
            myList[k]=right[j]
            j += 1
            k += 1

myList = [54,26,93,17,77,37,44,55,20]
mergeSort(myList)
print(myList)
```

OUTPUT-:

Try the new cross-platform PowerShell <https://aka.ms/pscore6>

```
PS D:\Python> python -u "d:\Python\tempCodeRunnerFile.py"  
[17, 20, 26, 37, 44, 54, 55, 77, 93]  
PS D:\Python>
```