

```
enter value of n - no of elements
7
enter values into the array
40 20 45 10 25 15 5
after merge sort :
5-->10-->15-->20-->25-->40-->45-->

---Time taken for different values of N---
time taken by 500 elements = 0.000051 secs
time taken by 1500 elements = 0.000155 secs
time taken by 2500 elements = 0.000284 secs
time taken by 3500 elements = 0.000375 secs
time taken by 4500 elements = 0.000497 secs
time taken by 5500 elements = 0.000647 secs
time taken by 6500 elements = 0.000755 secs
time taken by 7500 elements = 0.000957 secs
time taken by 8500 elements = 0.001026 secs
time taken by 9500 elements = 0.001141 secs
time taken by 10500 elements = 0.001255 secs
time taken by 11500 elements = 0.001449 secs
time taken by 12500 elements = 0.001584 secs
time taken by 13500 elements = 0.001625 secs
```

