

## LABORATORY WORK SHEET

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Semester	. University of	Roll Number		
.0.8Course Name :	DS hab	23951	n 0 5	
ulty Dr. M. Lake	hmi Perasad	Faculty	ID IARE	10865
D4 Week	Number: D4	Date	76112	4
DAY TO DAY EVALUATION:				
	Source Code	Program Execution	No.	
Performance in the Lab	Calculations and Graphs	Results and Error Analysis	Viva - Voce	Total
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4.1 Quick sort.				
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int middle = left t night/2;

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int night) of

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HOLL NOMBER:
            Merge sort ( array. middle +1. sught);
           merge ( avray . left : middle . right );
     Public static void mergesort (int [7 away. int left, int
                                    middle, int suight) of.
          int n, - middle . left + 1;
          int n, = night - middle;
          int [] left duay = new int [n];
          ent [] sught Asviay = new int [n2];
          for (ant i = 0; i × n; i++) d
                 lest Annay [i'] away [left +1];
      for lint j=0; j < n, ; j++) d
          right array [j]. overay [middle +1+j];
       int i=0; j=0;
       int K = left;
       while (izn: &&jzn2) f
           if [ hest Armay [i] L = right Armay[j]) of
                   array [K] = left Amay [i];
              yelse f
                  array[K] = originat Array [i];
                  1++;
        K++;
        merge sort laviery, o, averay length -1);
        for (int i = 0; i L and. length; i++) {
               System. out. pountle (array [i]);
                 if (i & over.length -1) d.
                          System. Out. pourtln (", ");
```