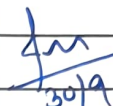
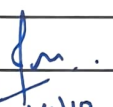
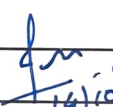
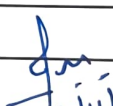


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Department Of Information Technology

Year and Course TY. IT. A-3. DAA-Lab PRN No.: 123B1F048

## INDEX

Sr. No.	Title	Page No.	Date	Signature	Remarks
5.	Optimal Delivery Routing - Implement DP to identify cost effective delivery paths. (Dynamic Programming)	—	02/09/25		Very Good
6.	Disaster Relief Resource Allocation - use 0/1 knapsack approach to optimize essential supply allocat- ion within capacity limits. (Dynamic Programming)	—	23/09/25		Very Good
7.	University Exam timetable scheduling - Implement Graph coloring techniques to generate conflict free and efficient timetables. (Greedy / Backtracking)	—	30/09/25		Very Good
8.	Delivery Route Optimization - apply the branch and bound algorithm to determine least cost of delivery route across cities. (Branch and Bound)	—	14/10/25		Very Good

This is certify that Shri. Kinjal Amit Heda has carried out the  
 above mentioned Design Analysis And Algorithms Lab Practicals / Term Work  
 in the Information Technology Department of Pimpri Chinchwad College of Engineering, Pune-44.

Date : 04/11/25

  
 Subject Incharge  
 Pimpri Chinchwad College of Engineering, Pune - 44

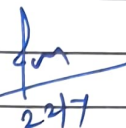
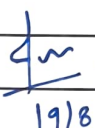
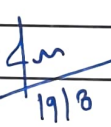
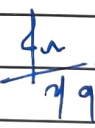
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## INDEX

Sr. No.	Title	Page No.	Date	Signature	Remarks
1.	Implement Merge sort to efficiently organize large scale orders based on time stamp. (Divide and Conquer)	—	08/07/25	 22/7	Very Good
2.	Implement Quick sort to enhance personalized movie ranking and improve responsiveness. (Divide and Conquer)	—	22/07/25	 19/8	Very Good
3.	Emergency Relief Supply Optimization - Implement the Fractional knapsack algorithm to maximize utility value within given weight constraint. (Greedy Algorithm)	—	05/08/25	 19/8	Very Good
4.	Smart Traffic Management - Implement Dijkstra's algorithm to determine the optimal ambulance route under dynamic traffic conditions. (Greedy Algorithm)	—	19/08/25	 7/9	Very Good

This is certify that Shri. Kinjal Amit Heda has carried out the above mentioned Design Analysis And Algorithms Lab Practicals / Term Work in the Information Technology Department of Pimpri Chinchwad College of Engineering, Pune-44.

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