

PIMPRI CHINCHWAD EDUCATION TRUST'S
PIMPRI CHINCHWAD COLLEGE OF ENGINEERING
 Sector No. 26, Pradhikaran, Nigdi, Pune - 411044

Department Of Information Technology

Year and Course TY B.Tech

PRN No.: 123B1F028

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Sr. No.	Title	Page No.	Date	Signature	Remarks
1.	Implement Merge sort to efficiently organize large data set orders based on timestamp. (using divide and conquer.)	-	7/7/2025	Jn 11/11	(C)
2.	Implement quick sort to enhance personalized movie ranking and improve responsiveness. (divide and conquer.)	-	21/7/2025	Jn 11/8	(C)
3.	Emergency Relief Supply Optimization - Implement the fractional knapsack algorithm to maximize utility value within given weight constraint (Greedy Algorithm.)	-	4/8/2025	Jn 11/8	(C)
4.	SMART Traffic Management - Implement Dijkstra's algorithm to determine the optimal ambulance route under dynamic traffic conditions (Greedy Algo.)	-	15/8/2025	X 11/9	(C)

This is certify that Shri. Pranav Ravindra Harad has carried out the above mentioned DAA Lab Practicals / Term Work in the IT Department of Pimpri Chinchwad College of Engineering, Pune-44.

Date : 03/11/2025

Jn
3/11/25

H.O.D. Information Technology
 Subject Incharge **Pimpri Chinchwad College of Engineering**
 Head of Department **Sect. 26, Pradhikaran, Nigdi, Pune-411044**
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5.	Optimal Delivery Routing Implement DP to identify cost effective delivery paths (Dynamic programming)	-	25/8/2025	Jn 3/11/20	(C)
6.	Disaster Relief Resource Allocation - Use 0/1 knapsack approach to optimize essential supply allocation (dynamic programming)	-	1/9/2025	Jn 3/11/20	(C)
7.	University Exam timetable scheduling - Implement Graph Colouring to generate Conflict free and efficient timetables. (Greedy Algorithm)	-	15/9/2025	Jn 3/11/20	(C)
8.	Delivery Route optimization - Apply branch and bound algo. to determine the least cost delivery route across cities. (Branch and Bound)	-	6/10/2025	Jn 3/11/20	(C)

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