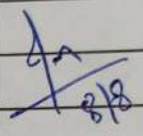
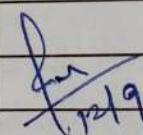
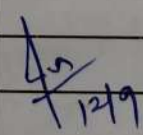


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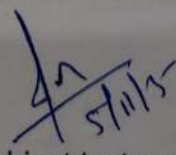
Year and Course T.Y B-Tech PRN No.: 123B1F003

## INDEX

Sr. No.	Title	Page No.	Date	Signature	Remarks
1.	Implement Merge sort to efficiently organize large scale orders based on timestamp (Divide & conquer)	-	11/7/25		Ⓢ
2.	Implement Quick sort to enhanced personalised movie ranking and improve responsiveness (Divide & conquer)	-	25/7/25		Ⓢ
3.	Emergency Relief supply optimization. Implement the Fractional knapsack algorithm to maximise utility value within given weight constraint. (Greedy approach)	-	8/8/25		Ⓢ

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

Date : 5/11/25

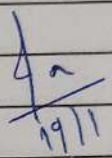
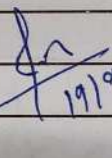
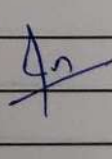
  
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 Subject Incharge Head of Department  
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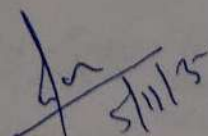
Year and Course T.Y B-Tech PRN No.: 123B1F003

## INDEX

Sr. No.	Title	Page No.	Date	Signature	Remarks
4)	Smart Traffic Management - Implement Dijkstra algorithm to determine the optimal ambulance route under dynamic traffic condition	—	22/8/25		Good
5)	optimal Delivery Routing Implement DP to identify cost effective delivery Path	—	12/9/25		Good
6)	Disaster Relief Resource Allocation - use 0/1 knapsack approach to optimization essential	—	19/9/25		Good

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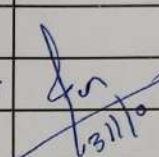
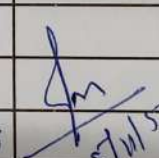


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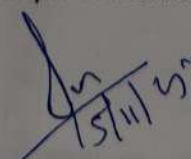
Year and Course T.Y B-Tech PRN No.: 123B1E003

## INDEX

Sr. No.	Title	Page No.	Date	Signature	Remarks
1)	Supply allocation within capacity limit (Dynamic programming)				
7)	University Exam Timetable scheduling - Implement Graph coloring Technique to generate conflict free & efficient timetable (Backtracking)		3/10/25		Good
8.	Delivery Route optimization apply the Branch & Bound Algorithm to determine at least cost		3/10/25		Good

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