

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

Department Of Information Technology.

Year and Course T.Y.B.Tech (2025-28) PRN No.: 123B1F040

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| Sr. No. | Title | Page No. | Date | Signature | Remarks |
|---------|---|----------|---------|---------------|---------|
| I. | Implement Merge Sort to efficiently Organize large Scale Orders based on Timestamp. | - | 7-7-25 | Jn 4/7/25 | ① |
| II. | Implement Quick Sort to enhance personalized movie ranking and improve responsiveness. | - | 21-7-25 | Jn 21/7/25 | ② |
| III. | Emergency Relief supply optimization - implement the fractional knapsack algorithm to maximize utility value within given weight constraints. | - | 4-8-25 | Jn 25/8/25 | ③ |
| IV. | Smart Traffic management implement dijkstra's algorithm to determine the optional ambulance route under dynamic traffic conditions. | - | 11-8-25 | Jn 11/8/25 | ④ |
| V. | Optimal Delivery Routing - Implement DP to identify cost effective delivery paths. | - | 25-8-25 | Jn 25/8/25 | ⑤ |
| VI. | Disaster Relief Resource Allocation - use 0/1 knapsack approach to optimize | - | 8-9-25 | Jn 8/9/25 | ⑥ |

This is certify that Shri. Siddharth Kakade has carried out the
 above mentioned DAA Lab Practicals / Term Work
 in the I.T. Department of Pimpri Chinchwad College of Engineering, Pune-44.

Date : 3-11-25

Subject Incharge Jn
3/11/25
 Pimpri Chinchwad College of Engineering, Pune - 44
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