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**Faculty of Technology and Engineering**

**Chandubhai S Patel Institute of Technology**

**Department of Computer Science & Engineering**

**Performa for PRACTICAL – 3**

Roll no.: Date:    /    /

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| Academic Year | : | 2024-25 | Semester | : | 4 |
| Course code | : | CSE207 | Course name | : | Design and Analysis of Algorithms |

**AIM:**

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| **3.** | |
| 3.1 | Given an array of integers nums and an integer target, return indices of the two numbers such that they add up to target. You may assume that each input would have exactly one solution, and you may not use the same element twice. You should return the answer in ascending order. |
| 3.2 | Given an integer n and an array of size m consisting of integers from 1 to n, where some numbers are missing, find all the missing numbers and return it in ascending order. The array may have duplicates. |

**3.1 comparisons of approaches**

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| **Approach** | **Time Complexity** | **Space Complexity** | **Observation** |
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**3.2 comparisons of approaches**

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| **Approach** | **Time Complexity** | **Space Complexity** | **Observation** |
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**Conclusion:**

**Grade / Marks Sign of Lab Teacher with Date**