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| **Branch/Semester** | B.Tech CSE (AI & ML) / Semester I |
| **Subject Name:** | Computer Programming |
| **Subject Code:** | 01CE2101 |
| **Assignment:** | Practice Questions (1D & 2D Array) |
| **Date:** | 3rd September 2025 |
| **Faculty Name:** | Prof. Abhishek Chauhan |

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| **Sr.** | **Question** | **CO** | **BL** |
| **1** | Write a C program to declare and initialize a 1D array of 5 integers. | CO3 | BL3 |
| **2** | Write a program to read and print elements of a 1D array of size 10. | CO3 | BL3 |
| **3** | Implement a program to find the sum of all elements in a 1D array. | CO3 | BL3 |
| **4** | Write a program to find the maximum element in a 1D array. | CO3 | BL3 |
| **5** | Write a program to find the minimum element in a 1D array. | CO3 | BL3 |
| **6** | Implement a program to count the number of even elements in a 1D array. | CO3 | BL3 |
| **7** | Write a program to reverse the elements of a 1D array. | CO3 | BL3 |
| **8** | Implement a program to search for an element in a 1D array. | CO3 | BL3 |
| **9** | Write a C program to declare and initialize a 2D array (3×3 matrix). | CO3 | BL3 |
| **10** | Write a program to read and print elements of a 2D array (matrix). | CO3 | BL3 |
| **11** | Implement a program to find the sum of all elements in a 2D array. | CO3 | BL3 |
| **12** | Write a program to add two matrices of size 3×3. | CO3 | BL3 |
| **13** | Write a program to subtract two matrices of size 3×3. | CO3 | BL3 |
| **14** | Implement a program to find the transpose of a matrix. | CO3 | BL3 |
| **15** | Write a program to find the sum of diagonal elements of a 3×3 matrix. | CO3 | BL3 |