**Assignment: Basic Array and Loops**

1. Write a C program to declare an array of integers with a size of “n”. Initialize and display the elements of the array.
2. Create a C program that initializes an array with “n” integers entered by the user and print sum.
3. Write a C program that asks the user to input “n” integers and stores them in an array. Use for loops to find the maximum and minimum values in the array.
4. Develop a C program that initializes an array of “n” integers from user input and then reverses the array without using a second array.
5. Write a C program that initializes an array with “n” integers entered by the user. Use a for loop to count how many numbers are odd and how many are even. Display the counts.
6. Implement a C program that lets the user fill an array with “n” integers, and then asks for a number to search within the array using linear search.
7. Write a C program that asks the user to input “n” integers to store in an array. Write a for loop to check if the array is symmetric.
8. Write a C program to generate and store the multiplication table of a given number up to “n” in an array.
9. Write a C program to merge two arrays of size “m” and “n”.