

Ex. No: 03

- (1) Write an Open MP program using C for the following 1-D array of n-elements and perform the following task.

(Find the time for each sub task and print the total time)

- To initialize and print the array elements and to add and multiply a value to each element and print the same
- To find the sum, odd sum, even sum of the array elements and to count the odd and even elements in the array
- To find the sum of square's, cubes of array elements and to find the maximum and minimum in an array and to display the second largest and smallest element in an array
- To print and count the prime numbers and their sum in the array
- To find the mean, standard deviation and variance of the given array elements
- To count the duplicate elements of the array and to find the frequency count of each elements

- (2) Find the vector sum and vector product of n– elements in an array using open MP reduction clause.