

Lab 7 Submission

Task 1:

Write a C Program that takes a user input array and prints the sum of its elements.

Input: {1,2,3,4,5,6,7,8,9}

Output: 45

- Output:

```
Enter the size of the array:5
Enter number 1:10
Enter number 2:20
Enter number 3:30
Enter number 4:40
Enter number 5:50
Sum of 5 elements is:150
-----
Process exited after 12.15 seconds with return value 0
Press any key to continue . . .
```

Task 2:

Write a program in C to read n number of values in an array and display it in reverse order

Input: {1,2,3,4,5,6,7,8,9}

Output: 9 8 7 6 5 4 3 2 1

- Output:

```
Enter the size of the array:5
Enter number 1:4
Enter number 2:1
Enter number 3:2
Enter number 4:7
Enter number 5:10
Reversed order:
number5:10
number4:7
number3:2
number2:1
number1:4
-----
Process exited after 15.86 seconds with return value 10
Press any key to continue . . .
```

Task 3:

Write a C Program to find the minimum and maximum number in an array.

Input: {4,1,6,8,10,21,8,9,2,6}

Output:

Minimum Number = 1

Maximum Number = 21

- Output:

```
Enter the size of the array:4
Enter number 1:10
Enter number 2:20
Enter number 3:11
Enter number 4:24
Maximum:24
Minimum:10
-----
Process exited after 13.36 seconds with return value 21
Press any key to continue . . .
```

Task 4:

Given an array `arr[]` of size `N` which contains elements from 0 to `N-1`, you need to find all the elements occurring more than once in the given array.

Input:

Array Size =5

Element 1=2

Element 2=3

Element 3=1

Element 4=2

Element 5=3

Output:

Numbers 2 and 3 in array occur more than once.

Note: You cannot utilize nested loops.

- Output:

```
Enter the size of the array:8
Enter number 1:2
Enter number 2:1
Enter number 3:5
Enter number 4:2
Enter number 5:3
Enter number 6:5
Enter number 7:3
Enter number 8:6
2 is repeated 2 times
3 is repeated 2 times
5 is repeated 2 times
```