Day : 16
TOPIC : Functions with 1D Arrays

Lab Assignments-16

Q#	Experiment Details	Input	Output
1.	WAP to design a user defined function to calculate the sum of the elements of an integer 1-D array.	**Set 1:** Enter the size of the array: 5 Enter the elements of the array: 3 5 7 2 6 **Set 2:** Enter the size of the array: 3 Enter the elements of the array: 5 0 -2	**Set 1:** Sum of the elements of the given array: 23 **Set 2:** Sum of the elements of the given array: 3
2.	WAP to sort the elements of an 1-D array in ascending order by using a suitable user defined function for sort operation.	**Set 1:** Enter the size of the array: 5 Enter the elements of the array: 3 5 7 2 6 **Set 2:** Enter the size of the array: 3 Enter the elements of the array: 5 0 -2	**Set 1:** Before sorting elements of the given array: 3 5 7 2 6 After sorting elements of the given array: 2 3 5 6 7 **Set 2:** Before sorting elements of the given array: 5 0 -2 After sorting elements of the given array: -2 0 5
3.	Write a C program to determine the largest and smallest element of a 1-D array. Use functions LARGEST and SMALLEST for the given purpose.	**Set 1:** Enter the size of the array: 5 Enter the elements of the array: 3 5 7 2 6 **Set 2:** Enter the size of the array: 3 Enter the elements of the array: 5 0 -2	**Set 1:** Largest element of array is 7 Smallest element of array is 2 **Set 2:** Largest element of array is 5 Smallest element of array is -2
4.	Write a C program to determine the second largest element of a 1-D array of using a function SECLARGEST.	**Set 1:** Enter the size of the array: 5 Enter the elements of the array: 3 5 7 2 6 **Set 2:**	**Set 1:** Second largest element of array is 6 **Set 2:** Second largest element of

		Enter the size of the array: 3 Enter the elements of the array: 5 0 -2	array is 0
5.	Write a C program to swap the first and last element of a 1-D array of using a function SWAP.	**Set 1:** Enter the size of the array: 5 Enter the elements of the array: 3 5 7 2 6 **Set 2:** Enter the size of the array: 3 Enter the elements of the array: 5 0 -2	**Set 1:** Entered array: 3 5 7 2 6 Array after swapping: 6 5 7 2 3 **Set 2:** Entered array: 5 0 -2 Array after swapping: -2 0 5

Home Assignments (Practice Problems)

Q#	Experiment Details	Input	Output
1.	Write a C program to swap the largest and smallest element of a 1-D array of using a function SWAP.	**Set 1:** Enter the size of the array: 5 Enter the elements of the array: 3 5 7 2 6 **Set 2:** Enter the size of the array: 3 Enter the elements of the array: 5 0 -2	**Set 1:** Entered array: 3 5 7 2 6 Array after swapping: 3 5 2 7 6 **Set 2:** Entered array: 5 0 -2 Array after swapping: -1 0 5
2.	Write a C program to find the sum of only odd values in a 1-D array using a function ODDSUM.	**Set 1:** Enter the size of the array: 5 Enter the elements of the array: 3 5 7 2 6 **Set 2:** Enter the size of the array: 3 Enter the elements of the array: 5 0 -2	**Set 1:** Sum of prime values = 15 **Set 2:** Sum of prime values = 5
3.	Write a C program to find the sum of only PRIME values in a 1-D array using a function	**Set 1:** Enter the size of the array: 5 Enter the elements of	**Set 1:** Sum of odd values = 15 **Set 2:** Sum of prime values = 5

	PRIMESUM.	the array: 3 5 7 2 6 **Set 2:** Enter the size of the array: 3 Enter the elements of the array: 5 0 -2	