# Arrays

**Day 11 : Lab Assignments**

| Q# | Experiment Details | Input | Output |
|---|---|---|---|
| 1. | WAP to create an array that can store N integers and display the contents of the array | Enter array size (N): 5<br><br>Enter number1: 45<br><br>Enter number2: 35<br><br>Enter number3: 38<br><br>Enter number4: 31<br><br>Enter number5: 49 | Array Contents are:<br><br>45 35 38 31 49 |
| 2. | WAP to find out the sum of the N numbers stored in an array of integers. | Enter array size (N): 5<br><br>Enter number1: 45<br><br>Enter number2: 35<br><br>Enter number3: 38<br><br>Enter number4: 31<br><br>Enter number5: 49 | Sum of the numbers stored in array: 198 |
| 3. | WAP to find the average of N numbers using arrays. | Enter array size (N): 5<br><br>Enter number1: 45<br><br>Enter number2: 35<br><br>Enter number3: 38<br><br>Enter number4: 31<br><br>Enter number5: 49 | Average of the numbers stored in array = 39.6 |
| 4. | WAP to find largest element stored in an array. | Enter array size (N): 5<br><br>Enter number1: 45<br><br>Enter number2: 35<br><br>Enter number3: 38 | Largest element stored in an array: 45 |

| | | Enter number4: 31<br><br>Enter number5: 49 | |
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| 5. | WAP to insert an element in an 1-d array. | **Set 1:**<br><br>Enter no of elements : 5<br><br>1 2 3 4 5<br><br>Enter the element to be inserted : 6<br><br>Enter the location: 2 | The resultant array:<br><br>1 6 2 3 4 5 |
| | **HOME ASSIGNMENT** | | |
| 1. | WAP to search an element in an 1-d array. | **Set 1:**<br><br>Enter no of elements : 5<br><br>11 22 33 44 55<br><br>Enter the elements to be searched : 44<br><br>**Set 2:**<br><br>Enter no of elements : 5<br><br>11 22 33 44 55<br><br>Enter the elements to be searched : 77 | **Set 1:**<br><br>Number found at the location = 4<br><br><br>**Set 2:**<br><br>Number not found |
| 2. | WAP to Count the total number of duplicate elements in an array. | Input the number of elements to be stored in the array :5<br><br>Input 5 elements in the array :<br><br>element - 0 : 1<br><br>element - 1 : 1<br><br>element - 2 : 2 | Total number of duplicate elements found in the array: 2 |

| | | element - 3 : 3 | |
|---|---|---|---|
| | | element - 4 : 3 | |
| 3. | WAP to find out the multiplication of the numbers stored in an array of integers. | **Set 1:**<br><br>Enter array size: 5<br><br>Enter array elements: 1 2 3 5 6 | **Set 1:**<br><br>Product of the array elements = 180 |
| 4. | WAP to find the second largest element in an array. | Input the size of array : 5<br><br>Input 5 elements in the array :<br><br>element - 0 : 2<br><br>element - 1 : 9<br><br>element - 2 : 1<br><br>element - 3 : 4<br><br>element - 4 : 6 | The Second largest element in the array is : 6 |
| 5. | WAP to delete an element at desired position from an array. | Input the size of array : 5<br><br>Input 5 elements in the array in ascending order:<br><br>element - 0 : 1<br><br>element - 1 : 2<br><br>element - 2 : 3<br><br>element - 3 : 4<br><br>element - 4 : 5 | Input the position where to delete: 3<br><br>The new list is : 1 2 4 5 |