# P3:PROGRAMS BASED ON ARRAYS BASICS IN JAVA[ASU]

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| **Objective(s):**    To familiarize the students with linear data structure array and its basic operations |
| **Outcome:**    The students will be able to implement and use arrays for solving various problems |
| **Problem Statement:**    2 Write a program to read numbers in an integer array of size 5 and display the following:  · Sum of all the elements  · Sum of alternate elements in the array  · Second highest element in the array |

**Code:**

**import java.util.Scanner;**

**public class Array\_Method2{**

**static void Sum\_All(int[] arr, int n) {**

**int sum1=0;**

**for(int i=0;i<n;i++) {**

**sum1=sum1+arr[i];**

**}**

**System.out.println("The sum of all Elements is="+ sum1);**

**}**

**static void Sum\_alternate(int[] arr, int n) {**

**int sum=0;**

**for(int i=0;i<n;i+=2) {**

**sum=sum+arr[i];**

**}**

**System.out.println("The sum of Alternate elements="+sum);**

**}**

**static void getSecondLargest(int[] arr, int n){**

**int temp;**

**for (int i = 0; i < n; i++)**

**{**

**for (int j = i + 1; j <n; j++)**

**{**

**if (arr[i] > arr[j])**

**{**

**temp = arr[i];**

**arr[i] = arr[j];**

**arr[j] = temp;**

**}**

**}**

**}**

**System.out.println("The Second largest Element ="+arr[n-2]);**

**}**

**public static void main(String[]args) {**

**Scanner sc= new Scanner(System.in);**

**System.out.println("Enter no. of Elements =");**

**int n = sc.nextInt();**

**int a[]=new int[n];**

**for(int i=0;i<n;i++) {**

**System.out.println("Enter element");**

**a[i]= sc.nextInt();**

**}**

**System.out.println("Elements in the array are=");**

**for(int i=0;i<n;i++) {**

**System.out.println( a[i]);**

**}**

**int m =a.length;**

**Sum\_All(a,m);**

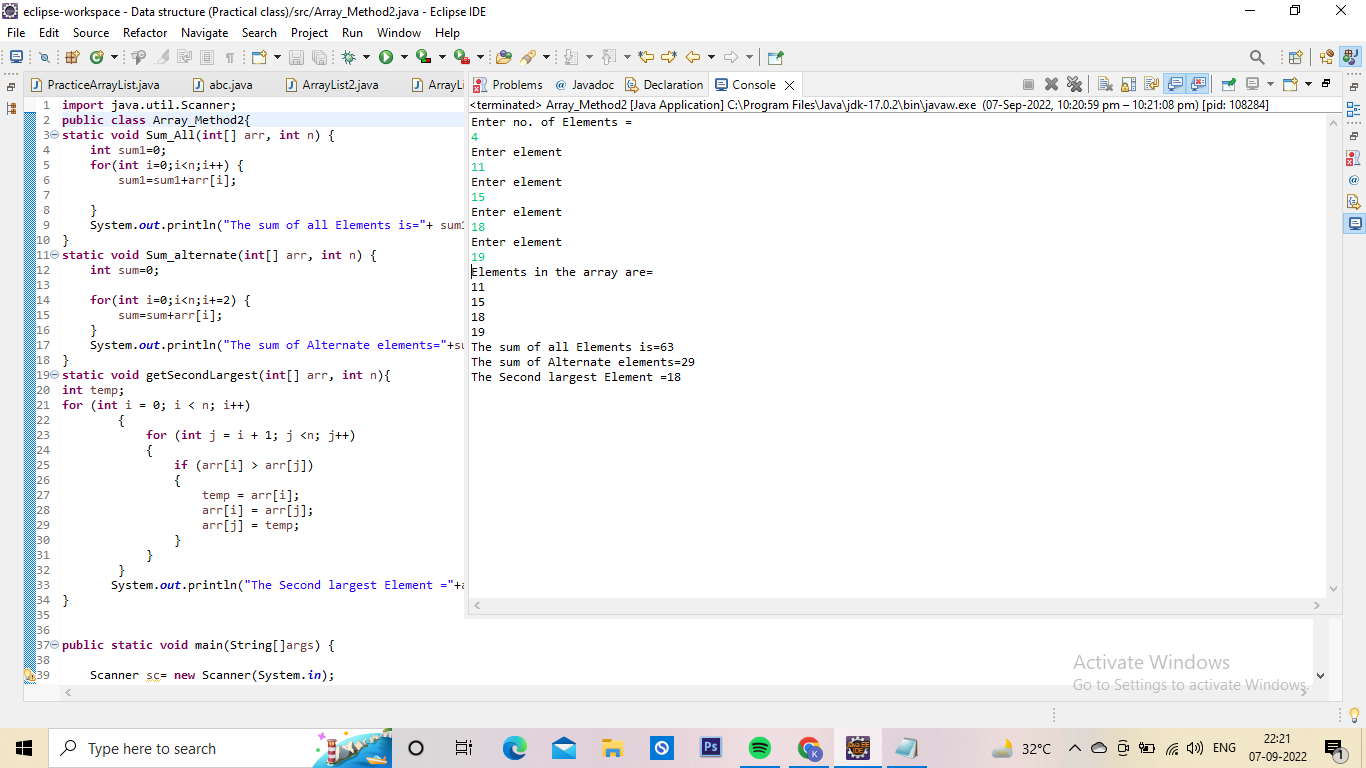
**Sum\_alternate(a,m);**

**getSecondLargest(a,m);**

**}**

**}**

**Output:**

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