1. Write a Python Program to find sum of array?

**Ans: def \_sum(arr):**

**sum=0**

**for i in arr:**

**sum = sum + i**

**return(sum)**

**arr=[]**

**arr = [12, 3, 4, 15]**

**n = len(arr)**

**ans = \_sum(arr)**

**print ('Sum of the array is ', ans)**

1. Write a Python Program to find largest element in an array?

**Ans: def largest(arr,n):**

**max = arr[0]**

**for i in range(1, n):**

**if arr[i] > max:**

**max = arr[i]**

**return max**

**arr = [10, 324, 45, 90, 9808]**

**n = len(arr)**

**Ans = largest(arr,n)**

**print ("Largest in given array is",Ans)**

1. Write a Python Program for array rotation?

**Ans: def rotateArray(arr, n, d):**

**temp = []**

**i = 0**

**while (i < d):**

**temp.append(arr[i])**

**i = i + 1**

**i = 0**

**while (d < n):**

**arr[i] = arr[d]**

**i = i + 1**

**d = d + 1**

**arr[:] = arr[: i] + temp**

**return arr**

**arr = [1, 2, 3, 4, 5, 6, 7]**

**print("Array after left rotation is: ", end=' ')**

**print(rotateArray(arr, len(arr), 2))**

1. Write a Python Program to Split the array and add the first part to the end?

**Ans: def splitArr(arr, n, k):**

**for i in range(0, k):**

**x = arr[0]**

**for j in range(0, n-1):**

**arr[j] = arr[j + 1]**

**arr[n-1] = x**

**arr = [12, 10, 5, 6, 52, 36]**

**n = len(arr)**

**position = 2**

**splitArr(arr, n, position)**

**for i in range(0, n):**

**print(arr[i], end = ' ')**

1. Write a Python Program to check if given array is Monotonic?

**Ans: def isMonotonic(A):**

**return (all(A[i] <= A[i + 1] for i in range(len(A) - 1)) or**

**all(A[i] >= A[i + 1] for i in range(len(A) - 1)))**

**A = [6, 5, 4, 4]**

**print(isMonotonic(A))**