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

def sum\_of\_array(arr):

total = 0

for num in arr:

total += num

return total

arr = [1, 2, 3, 4, 5]

print("Sum of array:", sum\_of\_array(arr))

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

def largest\_element(arr):

largest = arr[0]

for num in arr:

if num > largest:

largest = num

return largest

arr = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

print("Largest element:", largest\_element(arr))

**3. Write a Python Program for array rotation?**

def rotate\_array(arr, d):

for i in range(d):

temp = arr.pop(0)

arr.append(temp)

return arr

arr = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

d = 3

print("Original array: ", arr)

print("Rotated array: ", rotate\_array(arr, d))

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

def split\_and\_add(arr, k):

for i in range(k):

split = arr[:len(arr)//2]

arr = arr[len(arr)//2:] + split

return arr

arr = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

k = 3

print("Original array: ", arr)

print("After splitting and adding: ", split\_and\_add(arr, k))

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

def is\_monotonic(arr):

increasing = True

decreasing = True

for i in range(len(arr) - 1):

if arr[i] > arr[i + 1]:

increasing = False

if arr[i] < arr[i + 1]:

decreasing = False

return increasing or decreasing

arr = [1, 2, 2, 4, 5, 6, 7, 8, 9, 10]

print("Is array monotonic: ", is\_monotonic(arr))