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

A: # sum of array using lambda function

from functools import reduce

arr=[2,8,7,6,10,5]

def sum(arr):

sum = reduce(lambda a, b: a+b, arr)

return sum

a=sum(arr)

print('sum of array is {}'.format(a))

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

A: # largest in array elemnet

def maximum(arr,n):

arr.sort()

return arr[-1]

arr=[2,8,7,6,10,5]

n=len(arr)

x=maximum(arr,n)

print(' maximum of the array is{}'.format(x))

1. Write a Python Program for array rotation?

A: 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?

A: arr = [12, 10, 5, 6, 52, 36]

n = len(arr)

position = 2

x = arr[:position]

y = arr[position:]

y.extend(x)

for i in y:

print(i, end=" ")

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

A: def isMonotonic(A):

x, y = [], []

x.extend(A)

y.extend(A)

x.sort()

y.sort(reverse=True)

if(x == A or y == A):

return True

else:

return False

# Driver program

A = [6, 5, 4, 4]

# Print required result

print(isMonotonic(A))