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

A. def array\_sum(arr):

# initialize the sum to 0

sum = 0

for i in arr:

sum += i

return sum

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

A. def find\_largest(arr):

# initialize the largest element to the first element of the array

largest = arr[0]

for i in arr:

if i > largest:

largest = i

return largest

1. Write a Python Program for array rotation?

A. def array\_rotation(arr, d):

# determine the length of the array

n = len(arr)

rotated\_arr = arr[d:] + arr[:d]

return rotated\_arr

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

A. def split\_and\_add(arr, n):

# split the array into two parts

part1 = arr[:n]

part2 = arr[n:]

new\_arr = part2 + part1

return new\_arr

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

A. def is\_monotonic(arr):

# initialize variables to track monotonicity

increasing = True

decreasing = True

# loop through the array and check if it is increasing or decreasing

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

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

increasing = False

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

decreasing = False

# the array is monotonic if it is either increasing or decreasing

return increasing or decreasing