1. Write a Python Program to find sum of array?
2. Write a Python Program to find largest element in an array?
3. Write a Python Program for array rotation?
4. Write a Python Program to Split the array and add the first part to the end?
5. Write a Python Program to check if given array is Monotonic?

class assigment7:

def logger1(s,y):

import logging as lg

lg.basicConfig(filename="Assignment7.txt",level=lg.DEBUG,format="%(asctime)s %(name)s %(levelname)s %(message)s")

cl=lg.StreamHandler()

cl.setLevel(lg.INFO)

format=lg.Formatter("%(asctime)s %(name)s %(levelname)s %(message)s")

cl.setFormatter(format)

lg.getLogger('').addHandler(cl)

a=lg.getLogger("Assigment7")

a.info(y)

def logger2(s,y):

import logging as l

l.basicConfig(filename="Assignment7.txt",level=l.ERROR,format="%(asctime)s %(name)s %(levelname)s %(message)s")

c=l.StreamHandler()

c.setLevel(l.ERROR)

format=l.Formatter("%(asctime)s %(name)s %(levelname)s %(message)s")

c.setFormatter(format)

l.getLogger('').addHandler(c)

b=l.getLogger("Assigment7.error")

b.error(y)

def sum\_array(s):

try:

n=int(input("Enter the size of array: "))

l=[]

for i in range(n):

m=int(input("Enter an array element"))

l.append(m)

sum=0

for j in l:

sum = sum +j

s.logger1("The sum of the array element is : "+str(sum))

except Exception as e :

s.logger2(str(e))

def largest\_element\_in\_array(s):

try:

n=int(input("Enter the size of array: "))

l=[]

for i in range(n):

m=int(input("Enter an array element"))

l.append(m)

large=l[0]

for j in range(n):

if large<l[j]:

large=l[j]

s.logger1("The largest element in an array is : "+str(large))

except Exception as e :

s.logger2(str(e))

def rotate(s):

try:

n=int(input("Enter the size of an array: "))

ar=[]

for i in range(0,n):

val=input("Enter an element of an array ")

ar.append(val)

k=int(input("Enter a rotate factor "))

k=k%n

if (k<0):

k +=n

for i in range(k):

temp=ar[n-1]

for j in reversed(range(n-1)):

ar[j+1]=ar[j]

ar[0]=temp

s.logger1("The rotated array is: "+str(ar))

except Exception as e:

s.logger2(str(e))

def split\_array(s):

try:

ar=[]

n=int(input("Enter the size of an array"))

p=int(input("Enter the position of an array"))

for i in range(0,n):

val=input("Enter an element of an array ")

ar.append(val)

for i in range(0,p):

temp=ar[0]

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

ar[j]=ar[j+1]

ar[n-1]=temp

s.logger1("The splited array: "+str(ar))

except Exception as e :

s.logger2(str(e))

def monotonic(s):

try:

ar=[]

n=int(input("Enter the size of an array"))

x , y = [] , []

for i in range(0,n):

val=int(input("Enter an element of an array "))

ar.append(val)

x.extend(ar)

y.extend(ar)

x.sort()

y.sort(reverse=True)

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

s.logger1("The array is monotonic: "+str(True))

else:

s.logger1("The array is not monotonic: "+str(False))

except Exception as e :

s.logger2(str(e))

def \_\_str\_\_(s):

return "End of Python Programming Assignment 7"