Input :

X = 10

Y = 50

temp = X X = Y

Y = temp

Print(“Value of X:”,X) Print(“Value of Y:”,Y)

Output : Value of X: 50 Value of Y: 10

Input :

X = 10

Y = 50 X,Y = Y,X

Print(“Value of X:”,X) Print(“Value of Y:”,Y)

Output : Value of X: 50 Value of Y: 10

1. Exchange of two numbers Using Naïve Approach

Using comma operator

Input :

X = 10

Y = 50 X = X^Y Y = X^Y X = X^Y

Print(“Value of X:”,X) Print(“Value of Y:”,Y)

Output : Value of X: 50 Value of Y: 10

Using XOR operator

Input :

X = 10

Y = 50

X = X+Y Y = X-Y

X = X-Y

Print(“Value of X:”,X) Print(“Value of Y:”,Y) Output :

Value of X: 50 Value of Y: 10

Using Arithmetic operator

1. Circulating the list of elements( built in functions & slice operator) Input :

no\_of\_terms = int(input("Enter number of values : "))

list1 = []

for val in range(0,no\_of\_terms,1):

ele = int(input("Enter integer : "))

list1.append(ele)

print("Circulating the elements of list ", list1)

for val in range(0,no\_of\_terms,1):

ele = list1.pop(0)

list1.append(ele)

print(list1) print(list1[0])

Output :

Enter number of values : 5 Enter integer : -2

Enter integer : -1 Enter integer : 0 Enter integer : 1 Enter integer : 2

Circulating the elements of list [-2, -1, 0, 1, 2]

[-1, 0, 1, 2, -2]

[0, 1, 2, -2, -1]

[1, 2, -2, -1, 0]

[2, -2, -1, 0, 1]

[-2, -1, 0, 1, 2]

-2

1. Calculate the distances between two points

Input :

def distance(x1, y1, x2, y2):

# Calculating distance

return (((x2 - x1)\*\*2 +(y2 - y1)\*\*2)\*\*0.5)

# Drivers Code

print( distance(3, 4, 4, 3))

Output : 1.4142135623730951