Ex.no: 1a Exchange of the two values

(using temp variable)

Date:

Program:

#Exchange of the two values using temporary variable

a=int(input("Enter the number 1 :"))

b=int(input("Enter the number 2 :"))

temp=0

print("The values before swapping :",a,b)

temp=a

a=b

b=temp

print("The values after swapping :",a,b)

Output:

Enter the number 1 :5

Enter the number 2 :2

The values before swapping : 5 2

The values after swapping : 2 5

Program 2:

#Exchange of the two values using comma operator

a=int(input("Enter the number 1 :"))

b=int(input("Enter the number 2 :"))

print("The values before swapping :",a,b)

a,b=b,a

print("The values after swapping :",a,b)

Output 2:

Enter the number 1 :5

Enter the number 2 :2

The values before swapping : 5 2

The values after swapping : 2 5

Program 3:

#Exchange of the two values using com

a=int(input("Enter the number 1 :"))

b=int(input("Enter the number 2 :"))

print("The values before swapping :",a,b)

a=a+b

b=a-b

a=a-b

print("The values after swapping :",a,b)

Output 3:

Enter the number 1 :5

Enter the number 2 :3

The values before swapping : 5 3

The values after swapping : 3 5

Program 4:

#swapping two numbersusing XOR method

>>> j=58

>>> k=46

>>>> j=j^k

>>> k=j^k

>>> j=j^k

>>> print("values after swapping ",j,k)>> print("the values before swapping ",j,k)

Output 4:

thevalues after swapping 46 58

>>> values before swapping 58 46 Circulating n variables

Program

n=int(input("Enter the number of values in the list :"))

l=[]

for i in range(0,n):

x=int(input("Enter the value :"))

l.append(x)

a=int(input("Enter number of rotation :"))

for i in range(0,a):

b=l.pop(0)

l.append(b)

print("The circulate list is :",l)

output

Enter the number of values in the list :3

Enter the value :1

Enter the value :2

Enter the value :5

Enter number of rotation :2

The circulate list is : [2, 5, 1]

The circulate list is : [5, 1, 2]

Distance b/w 2 points

Program

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

Calculating cost of apples

Program

N=15

Total\_amount=N\*30

Print(total\_amount)

Output

450

Simple interest calculation

Program

P=120000

M=12

R=0.5

Si=p\*M\*r%100

Print (si)

Output

7200