***SWAPPING OF TWO NUMBERS***

**Program code:**

x=20 #Method 1 for swapping

y=50

print("Before Swapping")

print("Value of x:",x,"and y:",y)

x,y=y,x

print("After Swapping")

print("Value of x:",x,"and y:",y)

**Output:**

Before Swapping

Value of x: 20 and y: 50

After Swapping

Value of x: 50 and y: 20

***SWAPPING OF TWO NUMBERS***

**Program Code:**

x=int(input("Enter a value:")) #Method 2 for swapping

y=int(input("Enter a value:"))

b=y

a=x

print("Values after swapping:",a,b)

**Output:**

Enter a value:20

Enter a value:50

Values after swapping: 20 50

***SWAPPING OF TWO NUMBERS***

**Program Code:**

x=int(input("Enter a value:")) # Method 3 for swapping

y=int(input("Enter a value:"))

x=x+y

y=x-y

x=x-y

print("Values after Swapping x:",x,"y:",y)

**Output:**

Enter a value:20

Enter a value:50

Values after Swapping x: 50 y: 20

***CIRCULATING NUMBERS***

**Program Code:**

s=int(input(“Enter a the values in the List:”))

list[]

for i in range(0,5):

element=int(input(“Enter the value:”))

list.append(element)

print(“Circulating the list”)

for i in range(0,5):

element\_deleted=list.pop(0)

list.append(element\_deleted)

print(“The circulated list after”,i+1,”rotation”,list)

**Output:**

Enter a value in the List:3

Enter the value:1

Enter the value:4

Enter the value:6

Circulating the list

The circulated list after 1 rotation[1,4,6]

The circulated list after 2 rotation[4,6,1]

The circulated list after 3 rotation[6,4,1]

***CIRCULATING NUMBERS***

**Program Code:**

defcirculate(c,n):

for i in range(1,n+1):

d=c[i:]+c[:i]

print(“Circulate”,”=”,d)

return

c=[178,289,324,448,570,698,188,842,956,106]

n=int(input(“Enter n:”))

circulate(c,n)

**Output:**

Enter n:2

Circulate=[289,324,448,570,698,188,842,956,106,178]

Circulate=[324,448,570,698,188,842,956,106,178,289]

***DISTANCE BETWEEN TWO LINES***

**Program Code:**

x1=int(input("Enter the number x1:"))

x2=int(input("Enter the number x2:"))

y1=int(input("Enter the number y1:"))

y2=int(input("Enter the number y2:"))

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

print("Distance between:",(x1,x2),"and",(y1,y2),"is",result)

**Output:**

Enter the number x1:2

Enter the number x2:5

Enter the number y1:1

Enter the number y2:3

Distance between: (2, 5) and (1, 3) is 3.605551275463989