Method 1;

p=int(input("enter the first value:"))

q=int(input("enter the second value:"))

print ("the values before swapping are ",p,q)

temp=p

p=q

q=temp

print("the values after swapping are ",p,q)

Method 2:

s=45

t=27

print("the values before swapping:",s,t)

s,t=t,s

print("the values after swapping:",s,t)

method 3:

x=45

y=25

print("the value before swapping are ",x,y)

x=x+y

y=x-y

x=x-y

print("the values after swapping are ",x,y)

method 4:

j=58

k=46

print("the values before swapping are ",j,k)

j=j^k

k=j^k

j=j^k

print("the values after swapping are ",j,k)

Output of method 1,2,3,4.

:51:26) [MSC v.1900 32 bit (Intel)] on win32

Type Python 3.5.3 (v3.5.3:1880cb95a742, Jan 16 2017, 15"copyright", "credits" or "license()" for more information.

>>>

============== RESTART: C:/Users/TEMP.VCET.016/Desktop/ex 2.py ==============

enter the first value:56

enter the second value:34

the values before swapping are 56 34

the values after swapping are 34 56

>>>

============== RESTART: C:/Users/TEMP.VCET.016/Desktop/ex.a.py ==============

the values before swapping: 45 27

the values after swapping: 27 45

>>>

============= RESTART: C:/Users/TEMP.VCET.016/Desktop/ex.2 b.py =============

the value before swapping are 45 25

the values after swapping are 25 45

>>>

============= RESTART: C:/Users/TEMP.VCET.016/Desktop/ex.2 c.py =============

the values before swapping are 58 46

the values after swapping are 46 58

>>>

Ex 2.b

s=int(input("enter the values in the list:"))

list=[]

for i in range(0,s):

element=int(input("enter the value :"))

list.append(element)

print ("circulating the list")

for i in range (0,s):

element\_deleted=list.pop(0)

list.append (element\_deleted)

print ("the circulated list after",i+1,"rotation",list)

output:

============= RESTART: C:/Users/TEMP.VCET.016/Desktop/ex.2 d.py =============

enter the values in the list:8

enter the value :5

enter the value :9

enter the value :2

enter the value :1

enter the value :7

enter the value :0

enter the value :3

enter the value :2

circulating the list

the circulated list after 1 rotation [9, 2, 1, 7, 0, 3, 2, 5]

the circulated list after 2 rotation [2, 1, 7, 0, 3, 2, 5, 9]

the circulated list after 3 rotation [1, 7, 0, 3, 2, 5, 9, 2]

the circulated list after 4 rotation [7, 0, 3, 2, 5, 9, 2, 1]

the circulated list after 5 rotation [0, 3, 2, 5, 9, 2, 1, 7]

the circulated list after 6 rotation [3, 2, 5, 9, 2, 1, 7, 0]

the circulated list after 7 rotation [2, 5, 9, 2, 1, 7, 0, 3]

the circulated list after 8 rotation [5, 9, 2, 1, 7, 0, 3, 2]

>>>

EX 2.C

x1=int(input("enter the value of x1:"))

x2=int(input("enter the value of x2:"))

y1=int(input("enter the value of y1:"))

y2=int(input("enter the value of y2:"))

d1=(x2-x1)\*\*2

d2 =(y2-y1)\*\*2

result=(d1+d2)\*\*0.5

print("distance between ",(x1-x2),"and",(y1,y2),"is",result)

OUTPUT:

enter the value of x1:2

enter the value of x2:6

enter the value of y1:4

enter the value of y2:7

distance between -4 and (4, 7) is 5.0

>>>

Ex 2.d

n=int(input("enter the value of n:"))

i=1

h=1

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

h=h\*i

i=i+1

print("the factorial of a number",n,"is",h)

output:

============= RESTART: C:/Users/TEMP.VCET.016/Desktop/ex 2 g.py =============

enter the value of n:7

the factorial of a number 7 is 5040

>>>

EX E

e=int(input("enter the number to be checked:"))

if (e%2==0):

print("the given number is EVEN")

else:

print("the given number is ODD")

OUTPUT:

============= RESTART: C:/Users/TEMP.VCET.016/Desktop/EX 2 H.py =============

enter the number to be checked:20000

the given number is EVEN

>>>