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Program:
#Swapping two number
p=int(input("enter the first value:"))
q=int(input("enter the second value:"))
print("the value before swapping are",p,q)
temp=p
p=q
q=temp
print("the value after swapping are",p,q)
Output:
enter the first value:6
enter the second value:26
the value before swapping are 6 26
the value after swapping are 26 6
Program:
#Swapping two number(using comma operator)
s=59
t=16
print("the value before swapping:",s,t)
s,t=s,t
print("the value after swapping:",s,t)
Output:
the value before swapping: 59 16
the value after swapping: 59 16
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Program:
#Swapping two number(using arithmetic operator)
x=45
y=25
print("the value before swapping are",x,y)
x=x+y
y=x-y
x=x-y
print("the value after swapping are",x,y)
Output:
the value before swapping are 45 25
the value after swapping are 25 45
Program:
#swapping two number(using XOR gate)
j=58
k=46
print("the vallue before swapping are",j,k)
i=j^k
k=j^k
j=j^k
print("the value after swapping are",j,k)
Output:
the vallue before swapping are 58 46
the value after swapping are 46 20
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Program:
#Circulate the n variable(using inbuilt function)
s=int(input("enter a the value 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 ciculated list after",i+1,"rotation",list)
Output:
       enter a the value in the list8
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 ciculated list after 1 rotation [9, 2, 1, 7, 0, 3, 2, 5]
the ciculated list after 2 rotation [2, 1, 7, 0, 3, 2, 5, 9]
the ciculated list after 3 rotation [1, 7, 0, 3, 2, 5, 9, 2]
the ciculated list after 4 rotation [7, 0, 3, 2, 5, 9, 2, 1]
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the ciculated list after 5 rotation [0, 3, 2, 5, 9, 2, 1, 7]
the ciculated list after 6 rotation [3, 2, 5, 9, 2, 1, 7, 0]
the ciculated list after 7 rotation [2, 5, 9, 2, 1, 7, 0, 3]
the ciculated list after 8 rotation [5, 9, 2, 1, 7, 0, 3, 2]
program:
#circulate the value of n variable
def circulate(c,n):
  for i in range(1,n+1):
    d=c[i:]+c[:i]
    print("circulate","=",d)
  result
c=[178,289,324,448,570,698,188,842,956,106]
n=int(input("enter n:"))
circulate(c,n)
Output:
     enter n:6
circulate = [289, 324, 448, 570, 698, 188, 842, 956, 106, 178]
circulate = [324, 448, 570, 698, 188, 842, 956, 106, 178, 289]
circulate = [448, 570, 698, 188, 842, 956, 106, 178, 289, 324]
circulate = [570, 698, 188, 842, 956, 106, 178, 289, 324, 448]
circulate = [698, 188, 842, 956, 106, 178, 289, 324, 448, 570]
circulate = [188, 842, 956, 106, 178, 289, 324, 448, 570, 698]
Program:
#Distance between the two points
x1=int(input("enter the value of x1:"))
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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 (2, 6) and (4, 7) is: 5.0
Program:
Area of triangle using heron's formula
a=float(input("enter first side:"))
b=float(input("enter second side:"))
c=float(input("enter third side:"))
s=(a+b+c)
area=(s*(s-a)*(s-b)*(s-c)**0.5)
print("the area of the triangle is %0.2f"%area)
Output:
enter first side:2.3
enter second side:5.6
enter third side:8.3
the area of the triangle is 6708.87
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Program:
Area of circle
def FindArea(r):
PI=3.14
return PI*(r*r);
print("Area is %0.6f"% FindArea(5))

Output:
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Area is 78.500000