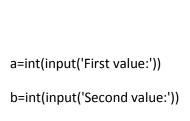
```
#exchange of two values using naive approach
a=int(input("First value:"))
b=int(input("Second value:"))
c=a
a=b
b=c
print("the exchanged values are" ,a,b)
#output is first value:5 second values:3 and the exchanged values are 35
#exchange of two values using comma operator
x=int(input("First value:"))
y=int(input("Second value:"))
x,y=y,x
print("the exchanged values are" ,x,y)
#output is first value:5 second value:10 and exchanged values are 105
#exchange of two values using arithmetic operator
a=int(input('First value:'))
b=int(input('Second value:'))
a=a+b
b=a-b
a=a-b
print('The exchanged values are' ,a,b)
output is first value:5 second value:10 and exchanged values are 105
```

#exchange of two values using XOR

```
a=int(input('First value:'))
b=int(input('Second value:'))
a=a^b
b=a^b
print('The exchanged values are',a,b)
output is first value:5 second value:10 and exchanged values are 05
#circulating two values using built-in functions
a=input('enter values :').split(',')
print('The original list is',a,'\n','circulating the list')
for i in range(len(a)):
  a.append(a[0])
  a.pop(0)
  print(a)
  #output is
enter values:1,2,3
The original list is ['1','2','3']
circulating the list
['2','3','1']
['3','1','2']
['1','2','3']
#circulating list of values using slicing operator
a=input('Enter values:').split(',')
print('The original list is',a,'\n','circulating the list')
for i in range(len(a)):
  cir=a[1:]+[a[0]]
```

```
print(cir)
#output is
Enter values:5,6
The original list is['5','6']
Circulating the list
['6','5']
['5','6']
#calculate the distance between two points
import math
x1=int(input('Enter x1:'))
x2=int(input('Enter x2:'))
y1=int(input('Enter y1:'))
y2=int(input('Enter y2:'))
d=math.sqrt((x2-x1)**2+(y2-y1)**2)
print('The distance between two points is',d)
#output is
Enter x1:4
Enter x2:5
Enter y1:8
Enter y2:9
The distance between two points is 1.4142135
```



a=a^b

b=a^b

print('The exchanged values are',a,b)