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Program Examples

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AP/IT

Exchange the values of two variables

- Exchange the values of two variables :using tuple assignment

```
x =input("enter value for x:")
y = input("enter value for y:")
x,y=y,x
print('The value of x after swapping:',x)
print('The value of y after swapping:',y)
```

OUTPUT:

```
enter value for x:10
enter value for y:5
The value of x after swapping: 5
The value of y after swapping: 10
```

Exchange the values of two variables using third variable

```
x =input("enter value for x:")
y = input("enter value for y:")
temp = x
x = y
y = temp
print('The value of x after swapping:',x)
print('The value of y after swapping:',y)
```

OUTPUT:

```
enter value for x:20
enter value for y:25
The value of x after swapping: 25
The value of y after swapping: 20
```

Distance between two points

```
import math
def calculate_distance (x1,y1,x2,y2):
    dist=math.sqrt((x2-x1)**2+(y2-y1)**2)
    print (dist)
```

OUTPUT

```
calculate_distance(2,4,6,8)
5.65685424949
```

PROGRAM USING LIST

```
import math
p1=[4,0]
p2=[6,6]
distance=math.sqrt(((p1[0]-p2[0])**2)+((p1[1]-p2[1])**2))
print (distance)
```

OUTPUT

6.32455532034

Circulate n numbers

```
size=int(input("enter  the number ofelements:"))
lst=[]
print("Enter the elements:")
for i in range (0, size):
   lst.append(int(input()))
print("Entered list are:",lst)
for  i  in range (1, len(lst)):
   j=i
   while j>0 and lst[j-1]>lst[j]:
      temp=lst[j]
      lst[j]=lst[j-1]
      lst[j-1]=temp
      j-=1
print(“circulated list is:", lst)
```

Thank You