

EXCHANGING OF THE VALUES:-

INPUT(1):-

```
a=int(input("Enter number 1:"))
b=int(input("Enter number 2:"))
temp=0
print("The value before swapping:",a," ",b)
temp=a
a=b
b=temp
print("The value after swapping:",a," ",b)
```

OUTPUT(1):-

```
Enter number 1:34
Enter number 2:45
The value before swapping: 34  45
The value after swapping: 45  34
```

INPUT(2):-

```
a=int(input("Enter number 1:"))  
b=int(input("Enter number 2:"))  
print("The value before swapping:",a," ",b)  
a,b=b,a  
print("The value after swapping:",a," ",b)
```

OUTPUT(2):-

Enter number 1:34

Enter number 2:23

The value before swapping: 34 23

The value after swapping: 23 34

INPUT(3):-

```
a=int(input("Enter number 1:"))  
b=int(input("Enter number 2:"))  
print("The value before swapping:",a," ",b)  
a=a+b  
b=a-b  
a=a-b  
print("The value after swapping:",a," ",b)
```

OUTPUT(3):-

```
Enter number 1:56  
Enter number 2:34  
The value before swapping: 56 34  
The value after swapping: 90 34
```

INPUT(4):-

```
a=int(input("Enter number 1:"))  
b=int(input("Enter number 2:"))  
print("The value before swapping:",a," ",b)  
a=a^b  
b=a^b  
a=a^b  
print("The value after swapping:",a," ",b)
```

OUTPUT:-

```
Enter number 1:67  
Enter number 2:34  
The value before swapping: 67 34  
The value after swapping: 34 67
```

CIRCULATING THE LIST OF VALUES

INPUT(1):-

```
n=int(input("Enter the number of values in the list:"))  
l=[]  
for i in range(0,n):  
    x=int(input("Enter the value:"))  
    l.append(x)  
a=int(input("Enter number of rotation:"))  
for i in range(0,a):  
    b=l.pop(0)  
    l.append(b)  
    print("The circulate list is:",i)
```

OUTPUT(1):-

Enter the number of values in the list:3

Enter the value:1

Enter the value:5

Enter the value:8

Enter number of rotation:2

The circulate list is: [5, 8, 1]

The circulate list is: [8, 1, 5]

INPUT 2:

```
n=int(input("Enter the number of values in the list:"))  
l=[]  
for i in range(0,n):  
    x=int(input("Enter the value:"))  
    l.append(x)  
print("Circulating the list....")  
a=int(input("Enter the number of rotation:"))  
for i in range(0,a):  
    l=l[1:]+l[:1]  
    print("The circulate list is:",l)
```

OUTPUT 2:

```
Enter the number of values in the list:3  
Enter the value:1  
Enter the value:2  
Enter the value:4  
Circulating the list....  
Enter the number of rotation:2  
The circulate list is: [2, 4, 1]  
The circulate list is: [4, 1, 2]
```

DISTANCE BETWEEN TWO POINTS

INPUT:

```
print("To find the distance between two points")
x1=int(input("Enter x1 value:"))
y1=int(input("Enter y1 value:"))
x2=int(input("Enter x2 value:"))
y2=int(input("Enter y2 value:"))
D=(pow(x2-x1,2)+pow(y2-y1,2))**1/2
print("The distance between the points is:",D)
```

OUTPUT:

```
To find the distance between two points
Enter x1 value:34
Enter y1 value:32
Enter x2 value:22
Enter y2 value:21
The distance between the points is: 132.5
```

FAHRENHEIT INTO CELSIUS

INPUT:

```
a=int(input("Enter fahrenheit value F in degrees:"))
```

```
c=(a-32)*5/9
```

```
print("The celsius value is:",c)
```

OUTPUT:

```
Enter fahrenheit value F in degrees:28
```

```
The celsius value is: -2.2222222222222223
```


LEAP YEAR OR NOT

INPUT:

```
y=int(input("Enter number:"))
```

```
if((y%4==0)or(y%400==0)):
```

```
    print("leap year")
```

```
else:
```

```
    print("not leap year")
```

OUTPUT:

```
Enter number:2020
```

```
leap year
```