

S.No: 4	Exp. Name: Design an algorithm and implement using C language the following exchanges	Date:2023-03-31
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Aim:

Design an algorithm and implement using C language the following exchanges $a \leftarrow b \leftarrow c \leftarrow d \leftarrow a$ and print the result as shown in the example.

Sample Input and Output:

Enter values of a, b, c and d: 98 74 21 36

After swapping

a = 74

b = 21

c = 36

d = 98

Source Code:

exchange.c

```
#include<stdio.h>
void main()
{
    int a,b,c,d,temp;
    printf("Enter values of a, b, c and d: ");
    scanf("%d%d%d%d",&a,&b,&c,&d);
    temp=a;
    a=b;
    b=c;
    c=d;
    d=temp;
    printf("After swapping\na = %d\nb = %d\nc = %d\nd = %d\n",a,b,c,d);
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Enter values of a, b, c and d: 1 2 3 4
After swapping
a = 2
b = 3
c = 4
d = 1

Test Case - 2
User Output
Enter values of a, b, c and d: 98 74 21 36
After swapping
a = 74
b = 21

c = 36
d = 98