

S.No: 3

Exp. Name: ***Design an algorithm and implement using C language the following exchanges***

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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,t;
    printf("Enter values of a, b, c and d: ");
    scanf("%d%d%d%d",&a,&b,&c,&d);
    t=a;
    a=b;
    b=c;
    c=d;
    d=t;
    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