exchanges

## Aim:

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

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

```
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
```

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c = 36d = 98

= 36

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