

**Course Name:** O Level (2nd Sem B1 Batch)**Topic:** Array in C Continued...**Subject:** C Language**Date:** 27-April-2020**Example 1:** Program to copy an array in to another array in reverse order.

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int x[5],y[5],i,j=0;
    clrscr();
    printf("Enter elements of array \n");
    for(i=0;i<5;i++)
        scanf("%d",&x[i]);
    for(i--;i>=0;i--)
        y[j++]=x[i];
    for(j=0;j<5;j++)
        printf("%d\t",y[j]);
    getch();
}
```

**Example 2:** Program to search any element in an array.

```
#include <stdio.h>
#include <conio.h>
void main()
{
    int x[5], i, n;
    clrscr();
    for (i = 0; i < 5; i++)
    {
        printf("Enter the element of array : %d : ", (i+1));
        scanf("%d", &x[i]);
    }
    printf("Enter the search element\n");
    scanf("%d", &n);
    for (i = 0; i < 5; i++)
    {
        if(x[i] == n)
        {
            printf("Search Element Found . Position Is : %d \n", (i+1));
            break;
        }
    }
    if(i == 5)
    {
        printf("Search Element is not in Array.\n");
    }
    getch();
}
```

**Example 3: Program to insert any new element after any existing element in an array.**

```
#include<stdio.h>
#include<conio.h>
main()
{
    int a[10],s,n,i,j,n1;
    clrscr();
    printf("enter the size of array");
    scanf("%d",&s);
    for(i=0;i<s;i++)
    {
        printf("enter the element");
        scanf("%d",&a[i]);
    }
    printf("enter the value after which the number is to be inserted");
    scanf("%d",&n);
    for(i=0;i<s;i++)
    {
        if(a[i]==n)
            break;
    }
    if(i==s)
        printf("Element not found");
    for(j=s-1;j>i;j--)
        a[j+1]=a[j];
    printf("enter the no. to be inserted");
    scanf("%d",&n1);
    a[i+1]=n1;
    for(i=0;i<=s;i++)
        printf("\n%d",a[i]);
    getch();
}
```

**Example 4: Program to delete any existing element in an array.**

```
#include<stdio.h>
#include<conio.h>
main()
{
    int a[10],s,n,i,j;
    clrscr();
    printf("enter the size of array");
    scanf("%d",&s);
    for(i=0;i<s;i++)
    {
        printf("enter the element");
        scanf("%d",&a[i]);
    }
    printf("enter the value which you want to deleted");
    scanf("%d",&n);
    for(i=0;i<s;i++)
    {
        if(a[i]==n)
            break;
    }
    if(i==s)
        printf("Element not found");
```

```
for(j=i;j<s-1;j++)
a[j]=a[j+1];
for(i=0;i<s-1;i++)
printf("\n%d",a[i]);
getch();
}
```

**Try Yourself:**

1. Write a program **to** insert any new element before any existing element in an array.
2. Write a program to print the sum of largest and smallest value an array.