

7.array :-

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#include <stdio.h>
#include <stdlib.h>
int main()
{
    int a[100];
    int element,i,loc,size,n,j,choice;

    printf("1. Inserting an Element in an Array\n");
    printf("2. Deleting an Element in an Array\n");
    printf("Select your choice");
    scanf("%d",&choice);
    switch(choice)
    {
    case 1:
        printf("Enter the size of an array");
        scanf("%d",&size);
        printf("Enter %d array elements",size);
        for(i=0;i<size;i++)
        {
            scanf("%d",&a[i]);
        }
        printf("List before Insertion ");
        for(i=0;i<size;i++)
        {
            printf("%d ",a[i]);
        }
        printf("\ninsert at begin in an element ");
        scanf("%d",&element);
        scanf("%d",&loc);
        loc--;
```

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for(i=size-1;i>=loc;i--)
{
    a[i+1]=a[i];
}
a[loc]=element;
printf("List after Insertion: ");
for(i=0;i<size+1;i++)
{
    printf("%d ",a[i]);
}

break;
case 2:
    printf("Enter the size of an array");
    scanf("%d",&size);
    printf("Enter elements");
    for(i=0;i<size;i++)
    {
        scanf("%d",&a[i]);
    }

    printf("List before deletion");
    for(i=0;i<size;i++)
    {
        printf("%d ",a[i]);
    }

    printf("\nEnter an element to delete");
    scanf("%d",&n);
    for(i=0;i<size;i++)
    {
        if(a[i]==n)
        {
            for(j=i;j<(size-1);j++)

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        {
            a[j]=a[j+1];
        }
        break;
    }
}

printf("List after deletion");

for(i=0;i<(size-1);i++)
{
    printf("%d ",a[i]);
}

break;

default:

    printf("Wrong choice, Please try again later");
}

return 0;
}

```

Output :-

The screenshot shows the Dev-C++ IDE with a C program open. The program implements a menu-driven system for array operations: inserting and deleting elements. The output window shows the execution results where the user chose to insert an element at the beginning of an array.

```

C:\Users\Naga Narendra B\Downloads\7.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug 15.cpp 16.cpp 17.cpp 18.cpp 4.cpp 5.cpp 6.cpp 7.cpp
1 #include <stdio.h>
2 #include <stdlib.h>
3 int main()
4 {
5     1. Inserting an Element in an Array
6     2. Deleting an Element in an Array
7     Select your choice1
8     Enter the size of an array7
9     Enter 7 array elements24 64 90 87 14 76 34
10    List before Insertion 24 64 90 87 14 76 34 insert at begin in an element 14
11    24 90 34 76 64
12    List after Insertion: 24 64 90 87 14 76 34 0
13    -----
14    Process exited after 97.64 seconds with return value 0
15    Press any key to continue . . .

```