

1. Develop a C program to read and print the elements of an array.

```
#include <stdio.h>
int main()
{
    int a[1000],i,n;

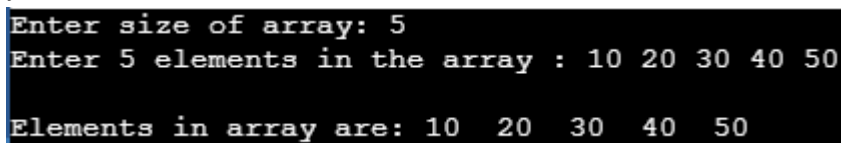
    printf("Enter size of array: ");
    scanf("%d",&n);

    printf("Enter %d elements in the array : ", n);
    for(i=0;i<n;i++)
    {
        scanf("%d", &a[i]);
    }

    printf("\nElements in array are: ");
    for(i=0;i<n;i++)

    {
        printf("%d ", a[i]);
    }

    return 0;
}
```

A screenshot of a terminal window showing the execution of the C program. The output is as follows:

```
Enter size of array: 5
Enter 5 elements in the array : 10 20 30 40 50
Elements in array are: 10 20 30 40 50
```

2. Write a program to print the smallest of N elements and its position in an array.

```
#include<stdio.h>
int main()
{
    int n,i,a[10],sum=0;
    int small=0,pos=0;
    printf("enter no of elements in array:");
    scanf("%d",&n);
    for(i=0;i<n;i++)
    {
        printf("a[%d]=",i);
        scanf("%d",&a[i]);
    }
    small=a[0];
    for(i=1;i<n-1;i++)
    {
        if( a[i] < small)
        {
            small=a[i];
        }
    }
}
```

```
        pos=i;
    }
}
printf("smallest no:%d \n",small);
printf("position:%d",pos);
}
```

```
enter no of elements in array:5
a[0]=10 20 30 40 50
a[1]=a[2]=a[3]=a[4]=smallest no:10
position:0
```