

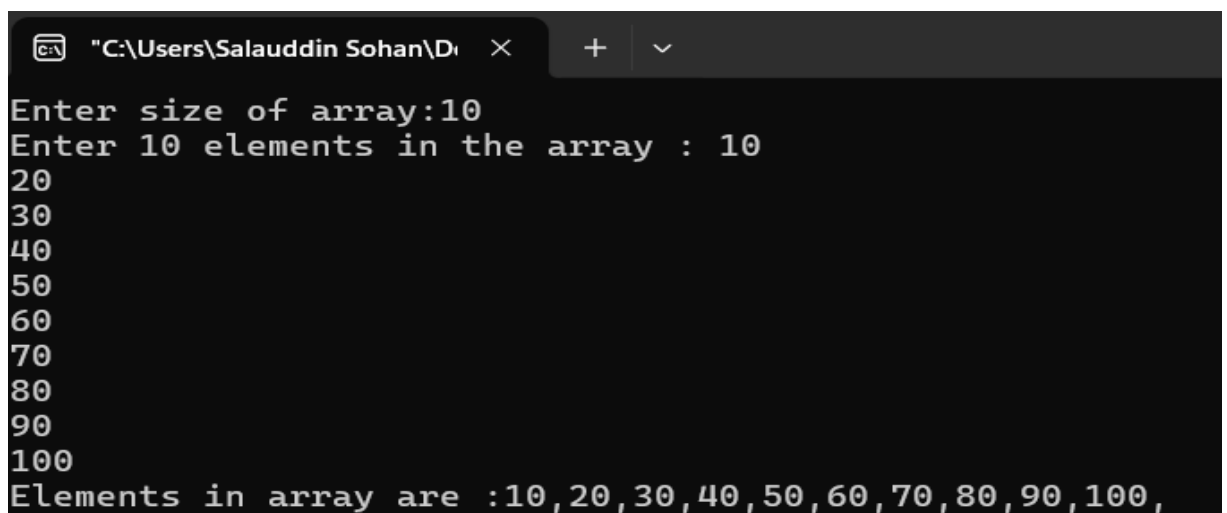
1. Write a C program to read and print elements of array.....

PROBLEM NAME : Write a C program to declare, initialize, input elements in array and print array. How to input and display elements in an array using for loop in C programming. C program to input and print array elements using loop.

SOURCE CODE:

```
#include<stdio.h>
int main()
{
    int n;;int i;
    printf("Enter size of array:");
    scanf("%d",&n);
    int arr[n];
    printf("Enter %d elements in the array : ",n);
    for (i=0;i<n;i++)
    {
        scanf("%d",&arr[i]);
    }
    printf("Elements in array are :");
    for (i=0;i<n;i++)
    {
        printf("%d,",arr[i]);
    }
    return 0;
}
```

OUTPUT :

A screenshot of a Windows command prompt window. The title bar shows the file path "C:\Users\Salauddin Sohan\Documents\". The prompt displays the following text: "Enter size of array:10", "Enter 10 elements in the array : 10", followed by a list of numbers "20", "30", "40", "50", "60", "70", "80", "90", "100" each on a new line. The final line of output is "Elements in array are :10,20,30,40,50,60,70,80,90,100,". The window has a dark background and a light-colored text.

```
"C:\Users\Salauddin Sohan\Documents\"
Enter size of array:10
Enter 10 elements in the array : 10
20
30
40
50
60
70
80
90
100
Elements in array are :10,20,30,40,50,60,70,80,90,100,
```

2. Write a C program to print all negative elements in an array.

PROBLEM NAME : Write a C program to input elements in array and print all negative elements. How to display all negative elements in array using loop in C program. Logic to display all negative elements in a given array in C programming.

SOURCE CODE:

```
#include <stdio.h>
int main()
{
    int i,n ;
    printf("Enter size of the array :");
    scanf("%d",&n);
    int arr[n];
    printf("Enter elements in array :");
    for (i=0;i<n;i++)
    {
        scanf("%d",&arr[i]);
    }
    printf("All negative elements in array are :");
    for(i=0;i<n;i++)
    {
        if(arr[i]<0)
            printf("%d ",arr[i]);
    }
    return 0;
}
```

OUTPUT :

```
Enter size of the array :10
Enter elements in array :-1 -10 100 5 61 -2 -23 8 -90 51
All negative elements in array are :-1 -10 -2 -23 -90
```

3. Write a C program to find sum of all array elements

PROBLEM NAME : Write a C program to read elements in an array and find the sum of array elements. C program to find sum of elements of the array. How to add elements of an array using for loop in C programming. Logic to find sum of array elements in C programming

SOURCE CODE:

```
#include <stdio.h>
int main()
{
    int i,n,sum=0 ;
    printf("Enter size of the array :");
    scanf("%d",&n);
    int arr[n];
    printf("Enter %d elements in the array :",n);
    for (i=0;i<n;i++)
    {
        scanf("%d",&arr[i]);
    }
    printf("Sum of all elements of array= ");
    for(i=0;i<n;i++)
    {
        sum+=arr[i];
    }
    printf("%d ",sum);
    return 0;
}
```

OUTPUT :

```
Enter size of the array :10
Enter 10 elements in the array :10 20 30 40 50 60 70 80 90 100
Sum of all elements of array= 550
Process returned 0 (0x0)    execution time : 4.821 s
Press any key to continue.
```

4. Write a C program to find maximum and minimum element in an array.

PROBLEM NAME : Write a C program to input elements in an array from user, find maximum and minimum element in array. C program to find biggest and smallest elements in an array. Logic to find maximum and minimum element in array in C programming.

SOURCE CODE:

```
#include <stdio.h>

int main()
{
    int size, i, max, min;

    printf("Enter size of the array: ");

    scanf("%d", &size);

    int arr[size];

    printf("Enter elements in the array: ");

    for(i = 0; i < size; i++)
    {
        scanf("%d", &arr[i]);
    }

    max = arr[0];
    min = arr[0];

    for(i = 1; i < size; i++)
    {
        if(arr[i] > max)
        {
            max = arr[i];
        }

        if(arr[i] < min)
        {
```

```
        min = arr[i];
    }
}

printf("Maximum element = %d\n", max);
printf("Minimum element = %d", min);

return 0;
}
```

OUTPUT:

```
Enter size of the array: 10
Enter elements in the array: -10 10 0 20 -2 50 100 20 -1 10
Maximum element = 100
Minimum element = -10
Process returned 0 (0x0)   execution time : 7.396 s
Press any key to continue.
```

Problem number 5:

```
#include <stdio.h>

int main() {
    int flag = 0, position, goru[50] = {5, 1, 0, -15, 10, 3, 7, 100}, i, search_value;
    printf("Enter search_value: ");
    scanf("%d", &search_value);
    for (i = 0; i < 8; i++) {
        if (search_value == goru[i]) {
            f
            lag = 1;
            position = i;
            break;
        }
    }
    if (flag == 1)
        printf("%d is found and position = %d\n", search_value, position + 1);
    else
        printf("Value is not found\n");
    return 0;
}
```

OUTPUT:

```
Enter search_value: 5
5 is found and position = 1
```