```c
//sugat katuwal

#include <stdio.h>

int main() {
    int n, i;
    int sum = 0, largest, smallest;

    // Ask the user for the size of the array
    printf("Enter the size of the array: ");
    scanf("%d", &n);

    int arr[n];  // Declare the array with the given size

    // Take input from the user to populate the array
    printf("Enter %d elements of the array: \n", n);
    for (i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }

    // Initialize largest and smallest to the first element
    largest = smallest = arr[0];

    // Calculate the sum, largest and smallest elements
    for (i = 0; i < n; i++) {
        sum += arr[i];

        if (arr[i] > largest) {
            largest = arr[i];
        }

        if (arr[i] < smallest) {
            smallest = arr[i];
        }
    }

    // Display the results
    printf("\nSum of all elements: %d\n", sum);
    printf("Largest element: %d\n", largest);
    printf("Smallest element: %d\n", smallest);

    // Reverse the array and display the reversed array
    printf("\nReversed array: ");
    for (i = n - 1; i >= 0; i--) {
        printf("%d ", arr[i]);
```

```c
    }

    return 0;
}
```



```c
1.//sugat katuwal

//bcsit
#include <stdio.h>

int main() {
    int n;


    printf("Enter number of elements to be entered: ");
    scanf("%d", &n);

    int a[n];

    for (int i = 0; i < n; i++) {
        printf("Enter a[%d] element: ", i);
        scanf("%d", &a[i]);
    }
```

```c
    int sum = 0;
    int largest = a[0];



    int smallest = a[0];


    for (int i = 0; i < n; i++) {
        sum += a[i];

        if (a[i] > largest) {
            largest = a[i];
        }
        if (a[i] < smallest) {
            smallest = a[i];
        }
    }

    printf("\nSum of all elements: %d\n", sum);
    printf("Largest element: %d\n", largest);
    printf("Smallest element: %d\n", smallest);


    printf("\nReversed array: ");
    for (int i = n - 1; i >= 0; i--) {
        printf("%d ", a[i]);
    }
    printf("\n");

    return 0;
}
```

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C: > Users > ACER > Documents > C array2.c > ...

```c
1   //sugat katuwal
2   //bcsit
3   #include <stdio.h>
4
5   int main() {
6       int n;
7
8
9       printf("Enter number of elements to be entered: ");
10      scanf("%d", &n);
11
12      int a[n];
13
14      for (int i = 0; i < n; i++) {
15          printf("Enter a[%d] element: ", i);
16          scanf("%d", &a[i]);
17      }
18
19      int sum = 0;
20      int largest = a[0];
21
22
23
24
25      int smallest = a[0];
26
27
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\ACER> cd "c:\Users\ACER\Documents\" ; if ($?) { gcc array2.c -o array2 } ; if ($?) { .\array2 }
Enter number of elements to be entered: 2
Enter a[0] element: 9
Enter a[1] element: 9

Sum of all elements: 18
Largest element: 9
Smallest element: 9

Reversed array: 9 9
PS C:\Users\ACER\Documents>
PS C:\Users\ACER\Documents>
PS C:\Users\ACER\Documents>
```

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