

//wap to find the sum of elements in an array

```
#include<stdio.h>
int sum(int a[]);
int main()
{
    int result, b[] = {23,33,44,55};
    result = sum(b);
    printf("Result = %d", result);
    return 0;
}
int sum(int a[])
{
    int i,sum_of_array=0;
    for (i = 0; i<4; ++i)
    {
        sum_of_array += a[i];
    }
    return sum_of_array;
}
```

Output:

Result = 155

Process exited after 0.06844 seconds with return value 0

Press any key to continue . . .

//wap to find the sort of the elements of an array in an ascending order.

```
#include<stdio.h>
/* Function prototype */
void asc_sort(int a[10], int n);
int main()
{
    int b[10], i, n;
    printf("Enter n:\n");
    scanf("%d", &n);
    /* Reading array */
    for(i=0;i<n;i++)
```

```

        {
            printf("The given elements are: a[%d]=",i);
            scanf("%d", &b[i]);
        }
        /* Function Call */
        asc_sort(b,n);
        /* Displaying sorted array */
        printf("Array in ascending order is:\n");
        for(i=0;i<n;i++)
        {
            printf("%d\t", b[i]);
        }
    }
    /* Function definition for asc_sort */
    void asc_sort(int a[10], int n)
    {
        int i, j, temp;
        for(i=0;i<n-1;i++)
        {
            for(j=i+1;j<n;j++)
            {
                if(a[i]>a[j])
                {
                    temp = a[i];
                    a[i] = a[j];
                    a[j] = temp;
                }
            }
        }
    }
}

```

Output:

Enter n:

5

The given elements are: a[0]=56

The given elements are: a[1]=67

The given elements are: a[2]=54

The given elements are: a[3]=51

The given elements are: a[4]=34

Array in ascending order is:

34 51 54 56 67

Process exited after 7.141 seconds with return value 0

Press any key to continue . . .

//wap to find the sort of the elements of an array in an descending order.

```
#include<stdio.h>
/* Function prototype */
void desc_sort(int a[10], int n);
int main()
{
    int b[10], i, n;
    printf("Enter n:\n");
    scanf("%d", &n);
    /* Reading array */
    for(i=0;i< n;i++)
    {
        printf("The given elements are: a[%d]=",i);
        scanf("%d", &b[i]);
    }
    /* Function Call */
    desc_sort(b,n);
    /* Displaying sorted array */
    printf("Array in descending order is:\n");
    for(i=0;i< n;i++)
    {
        printf("%d\t", b[i]);
    }
}
/* Function definition for desc_sort */
void desc_sort(int a[10], int n)
{
    int i, j, temp;
    for(i=0;i<n-1;i++)
    {
        for(j=i+1;j<n;j++)
        {
            if(a[i]<a[j])
            {
                temp = a[i];
                a[i] = a[j];
                a[j] = temp;
            }
        }
    }
}
```

```
}
```

Enter n:

5

The given elements are: a[0]=12

The given elements are: a[1]=34

The given elements are: a[2]=56

The given elements are: a[3]=11

The given elements are: a[4]=89

Array in descending order is:

89 56 34 12 11

//wap to find the largest element of an array

```
#include<stdio.h>
```

```
int maxArray(int a[], int n);
```

```
int main()
```

```
{
```

```
    int i,size;
```

```
    printf("Enter the size of array\n");
```

```
    scanf("%d",&size);
```

```
    int b[size],max_element;
```

```
    for(i = 0; i <size; i++)
```

```
    {
```

```
        printf("Enter the element %d\t",i);
```

```
        scanf("%d",&b[i]);
```

```
    }
```

```
    // passing array to the function
```

```
    max_element = maxArray(b, size);
```

```
    printf("Max element in array = %d", max_element);
```

```
    return 0;
```

```
}
```

```
int maxArray(int a[], int n)
```

```
{
```

```
    int max_element = a[0], i;
```

```
    for(i = 1; i < n; i++)
```

```
    {
```

```
        if(a[i] > max_element)
```

```
        {
```

```
            max_element = a[i];
```

```
        }
```

```

    }
    return max_element;
}

```

Enter the size of array

5

Enter the element 0 45

Enter the element 1 67

Enter the element 2 12

Enter the element 3 34

Enter the element 4 59

Max element in array = 67

//wap to find the smallest element of an array

```

#include<stdio.h>
int minArray(int a[], int n);
int main()
{
    int i,size;
    printf("Enter the size of array\n");
    scanf("%d",&size);
    int b[size],min_element;
    for(i = 0; i <size; i++)
    {
        printf("Enter the element %d\t",i);
        scanf("%d",&b[i]);
    }
    // passing array to the function
    min_element = minArray(b, size);
    printf("Min element in array = %d", min_element);
    return 0;
}

```

```

int minArray(int a[], int n)
{
    int min_element = a[0], i;
    for(i = 1; i < n; i++)
    {
        if(a[i] < min_element)

```

```
    {  
        min_element = a[i];  
    }  
}  
return min_element;  
}
```

Output:

Enter the size of array

5

Enter the element 0 45

Enter the element 1 67

Enter the element 2 12

Enter the element 3 14

Enter the element 4 18

Min element in array = 12
