**Practical No - 1**

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**Aim:** Write a program in C++ to sort the numbers in an array using separate functions to read, display, sort, swap.

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**Name: Tejaram Chaudhari**

**Batch: B1**

**Roll No. EN2009**

**Subject: Object Oriented Programming Lab**

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**Input**

#include<iostream.h>

void read(int a[], int &n)

{

cout<<"Enter the number of elements:"<<endl;

cin>>n;

cout<<"Enter the elements:"<<endl;

for(int i=0;i<n;i++)

{

cin>>a[i];

}

}

void swap(int &a, int &b)

{

int temp;

temp=a;

a=b;

b=temp;

}

void sort(int a[],int n)

{

for(int i=0;i<n;i++)

{

for(int j=0;j<n-1;j++)

{

if(a[j]>a[j+1])

swap(a[j],a[j+1]);

}

}

}

void display(int a[], int n)

{

cout<<"THE SORTED ARRAY IS "<<endl;

for(int i=0;i<n;i++)

{

cout<<a[i]<<endl;

}

}

int main()

{

int a[10],n;

read(a,n);

sort(a,n);

display(a,n);

return 0;

}

**Output**

Enter the number of elements:

8

Enter the elements:

11 5 31 24 81 116 37 93

THE SORTED ARRAY IS

5

11

24

31

37

81

93

116

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