

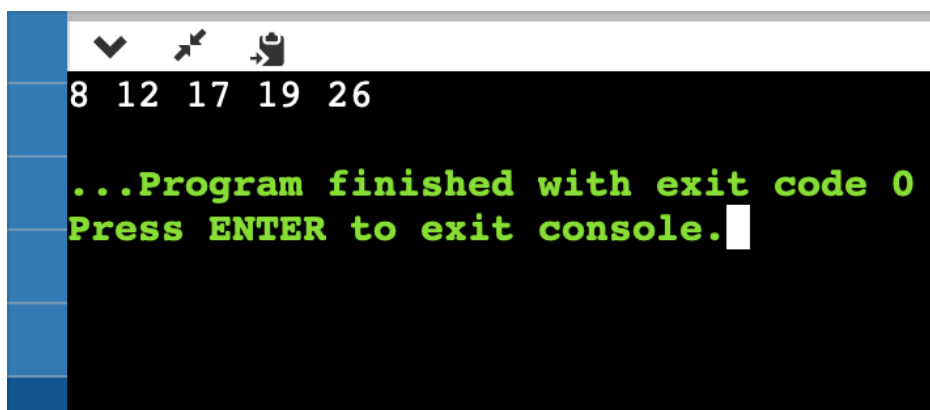
Fop lab Manual 8:

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lab task 2:

```
#include <bits/stdc++.h>
using namespace std;
int main(){
    int x=5;
    int array[x]={19,17,12,26,8},min=0;
    for (int k=0; k<x;k++){
        min=array[k];
        for(int l=k; l<x; l++){
            if(min>array[l]){
                min=array[l];
                array[l]=array[k];
                array[k]=min;
            }
        }
        cout<<array[k]<<" ";
    }
}
```

A screenshot of a terminal window showing the execution of a C++ program. The terminal has a black background with white text. At the top, there are three icons: a downward arrow, a cursor, and a document. The output of the program is displayed on the first line: "8 12 17 19 26". On the second line, there is a green message: "...Program finished with exit code 0". On the third line, there is a green message: "Press ENTER to exit console." followed by a white cursor icon.

```
8 12 17 19 26
...Program finished with exit code 0
Press ENTER to exit console.
```

lab task 1:

```
#include<bits/stdc++.h>
using namespace std;
```

```

int main(){

    double array[10];
    cout<<"enter 10 integers"<<endl<<endl;
    for(int k=0;k<=9;++k){
        cout<<"enter integer "<<(k+1)<<": ";
        cin>>array[k];
    }
    cout<<endl;
    cout<<"current array: ";
    for (int k=0;k<=9;++k){
        cout<<array[k]<<" ";
    }

    int n=10;
    double temp;
    int a;
    for (int w=0; w<n-1;++w){
        a=w;
        for (int l=w+1;l<n; ++l){
            if (array[l]<array[a]){
                a=l;
            }
        }
        temp=array[a];
        array[a]=array[w];
        array[w]=temp;
    }
    cout<<endl<<endl;
    cout<<"array after sorting: ";
    for(int k=0;k<10;++k){
        cout<<array[k]<<" ";
    }
    cout<<endl;
}

```

```
enter 10 integers

enter integer 1: 1
enter integer 2: 2
enter integer 3: 4
enter integer 4: 3
enter integer 5: 5
enter integer 6: 7
enter integer 7: 9
enter integer 8: 777
enter integer 9:
88
enter integer 10: 66

current array: 1 2 4 3 5 7 9 777 88 66

array after sorting: 1 2 3 4 5 7 9 66 88 777

...Program finished with exit code 0
Press ENTER to exit console.
```

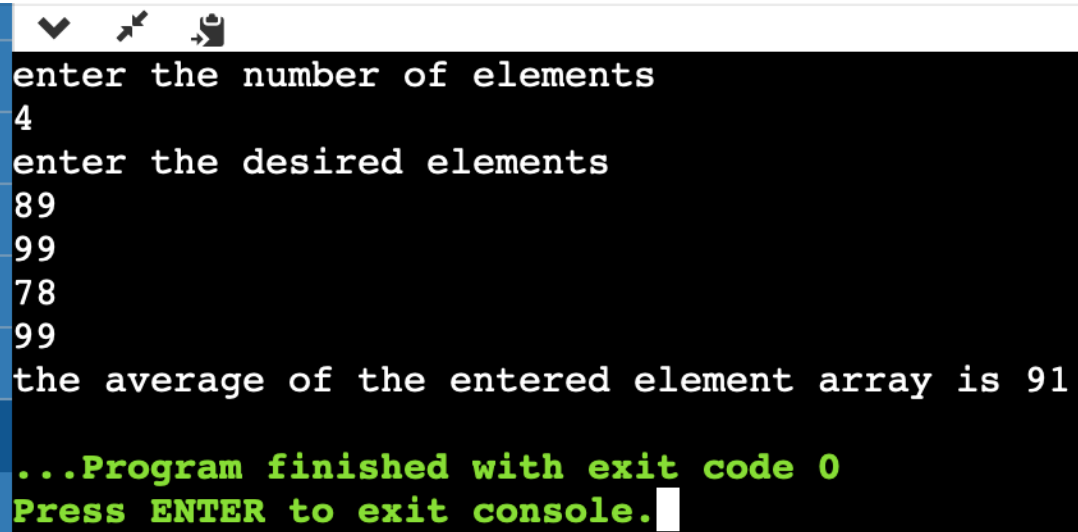
task 3:

```
#include<iostream>
using namespace std;
int main(){

int x;
cout<<"enter the number of elements "<<endl;
cin>>x;
int array[x], sum=0;
cout<<"enter the desired elements "<<endl;
for(int k=0;k<x;k++){
    cin>>array[k];
    sum+=array[k];
}
double avg=double(sum/x);
cout<<"the average of the entered element array is "<<avg;
```

```
return 0;
```

```
}
```

A terminal window with a black background and white text. The window has a title bar with three icons: a checkmark, a magnifying glass, and a document. The text inside the terminal shows the execution of a program. It starts with a prompt 'enter the number of elements' followed by the input '4'. Then it prompts 'enter the desired elements' followed by three inputs: '89', '99', and '78'. The program then outputs 'the average of the entered element array is 91'. Finally, it displays a green message: '...Program finished with exit code 0' and 'Press ENTER to exit console.' with a cursor at the end.

```
enter the number of elements
4
enter the desired elements
89
99
78
the average of the entered element array is 91
...Program finished with exit code 0
Press ENTER to exit console.
```