Selection Sort

```cpp
#include <iostream>

using namespace std;

void print(int[],int&);

void selection_sort(int[],int&);

void input (int[],int&);

int main(){

        int s;

        cout << "Enter the Size of Array : ";cin>>s;

        int arr[s];

        input(arr,s);

        print(arr,s);

        selection_sort(arr,s);

        print(arr,s);

        return 0;

}

void input(int arr[],int &s){

        for(int i=0;i<s;i++){

                cout << "Enter "<<i<<" Index Value : ";cin>>arr[i];

        }


}
```

```cpp
void print(int arr[],int&s){

        cout<<"Array is !" <<endl;

        for(int i=0;i<s;i++){

                cout << arr[i]<<"  ";

        }

        cout << endl;

}


void selection_sort(int arr[],int& s){

        int min=0,temp;

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

                min=j;

        for( int i=0+j;i<s-1;i++){


                if(arr[min]>arr[i+1])

                {

                        min=i+1;

                }

        }


        temp=arr[min];

        arr[min]=arr[j];

        arr[j]=temp;

}}
```

```
C:\Users\Naeem ur Rahman\OneDrive\Desktop\...        —    □    ×
Enter the Size of Array : 6
Enter 0 Index Value : 80
Enter 1 Index Value : 70
Enter 2 Index Value : 60
Enter 3 Index Value : 55
Enter 4 Index Value : 10
Enter 5 Index Value : 90
Array is !
80  70  60  55  10  90
Array is !
10  55  60  70  80  90

------------------------------
Process exited after 23.92 seconds with return value 0
Press any key to continue . . .
```

Insertion Sort

```cpp
#include <iostream>

using namespace std;

void print(int[],int&);

void insertion_sort(int[],int&);

void input (int[],int&);

int main(){

        int s;

        cout << "Enter the Size of Array : ";cin>>s;

        int arr[s];

        input(arr,s);

        print(arr,s);

        insertion_sort(arr,s);

        print(arr,s);

        return 0;

}
```

```cpp
void input(int arr[],int &s){

        for(int i=0;i<s;i++){

                cout << "Enter "<<i<<"
Index Value : ";cin>>arr[i];

        }

}

void print(int arr[],int&s){

        cout<<"Array is !" <<endl;

        for(int i=0;i<s;i++){

                cout << arr[i]<<" ";

        }

        cout << endl; }

void insertion_sort(int arr[],int& s){

        int key,t;

        for(int i=1;i<s;i++){

                key=arr[i];

                t=i-1;

                while(arr[t] > key && t >= 0
){

                        arr[t+1]=arr[t];

                t--;

                }

        arr[t+1]=key;

}}
```

```
C:\Users\Naeem ur Rahman\OneDrive\Deskto...   —   □   ✕
Enter the Size of Array : 6
Enter 0 Index Value : 80
Enter 1 Index Value : 70
Enter 2 Index Value : 60
Enter 3 Index Value : 55
Enter 4 Index Value : 10
Enter 5 Index Value : 90
Array is !
80  70  60  55  10  90
Array is !
10  55  60  70  80  90

--------------------------------
Process exited after 12.11 seconds with return value 0

Press any key to continue . . .
```