**Assignment No : 4.4**

**Title : Implementation of Program of sorting techniques using array.(Selection sort)**

**Name : Patil Leena Arun**

**Roll No :82**

#include<iostream.h>

#include<conio.h>

void SELECTION\_SORT(int \*arr,int n);

void SELECTION\_SORT(int \*arr,int n)

{

//selection sort

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

{

int min=i;

for(int j=i+1;j<=n;j++)

{

if(arr[min]>arr[j])

min=j;

}

if(i!=min)

{

int temp=arr[i];

arr[i]=arr[min];

arr[min]=temp;

}

}

}

void main()

{

clrscr();

int n,arr[10];

int min;

cout<<"Enter size of an array"<<endl;

cin>>n;

cout<<"Enter elements in an array"<<endl;

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

{

cin>>arr[i];

}

SELECTION\_SORT(arr,n);

cout<<"sorted elements are"<<endl;

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

{

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

}

getch();

}