**Assignment No: 4.4**

**Title : Implementation of program based on selection sort Sort.**

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#include<iostream.h>

#include<conio.h>

class SELECTION

{

private:

int A[],i,Pos\_min,j,n,TEMP;

public:

void GET();

void PROCESS();

void DISPLAY();

};

void SELECTION::GET()

{

cout<<"\n Enter the array size :";

cin>>n;

cout<<"\n Enter the array element =>";

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

cin>>A[i];

}

void SELECTION::PROCESS()

{

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

{

Pos\_min=i;

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

{

if(A[j]<A[Pos\_min])

Pos\_min=j;

}

if(Pos\_min!=i)

{

TEMP=A[Pos\_min];

A[Pos\_min]=A[i];

A[i]=TEMP;

}

}

}

void SELECTION::DISPLAY()

{

cout<<"\n array elements are =>";

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

cout<<A[i]<<" ";

}

void main()

{

clrscr();

SELECTION s;

s.GET();

s.DISPLAY();

s.PROCESS();

cout<<"\n After Sorting: ";

s.DISPLAY();

getch();

}