**Batch:- B3 Date – 06-02-2024**

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**Practical Name:-Selection sort Practical No. 3**

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#include<iostream>

using namespace std;

class SelectionSort

{

public:

int l,\*a,n,i;

SelectionSort()

{

cout<<"\n Enter the size of Array:";

cin>>n;

a=new int[n];

}

void getData()

{

cout<<"\n Enter"<<n<<"elements";

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

cin>>a[i];

}

void putData()

{

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

cout<<""<<a[i];

}

void selection()

{

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

{

l=i;

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

{

if(a[j]<a[l])

{ l=j; }

if(l!=i)

{

int temp=a[l];

a[l]=a[i];

a[i]=temp;

}

}

}

}

};

int main()

{

SelectionSort s;

s.getData();

cout<<"\n Before Sorting:";

s.putData();

s.selection();

cout<<"\n After Sorting:";

s.putData();

return 0;

}

Output –

Enter the size of Array: 3

Enter 3 elements 27 16 18

Before Sorting: 27 16 18

After Sorting: 16 18 27