Practical No: - 3 Write a Program to Find Maximum & Minimum From Given Array.

```cpp
#include<iostream>
#include<conio.h>
using namespace std;
int A[700],i;
class Min_Max
{
public:
int n;
void getdata();
int max(int,int);
int min(int,int);
void min_max(int,int,int*,int*);
}s;
void Min_Max::getdata()
{
cout<<"\n\n How many element you want to enter:-";
cin>>n;
cout<<"\n\n Enter the Element:-";
for(i=1;i<=n;i++)
cin>>A[i];
}
void Min_Max::min_max(int i,int j,int *fmax,int *fmin)
{
int gmin,gmax,hmin,hmax,mid;
if(i>=j-1)
{
if(A[i]<A[j])
{
*fmax=A[j];
*fmin=A[i];
}
else
{
*fmax=A[i];
*fmin=A[j];
}
}
```

```cpp
else
{
mid =(i+j)/2;
min_max(i,mid,&gmax,&gmin);
min_max(mid+1,j,&hmax,&hmin);
*fmax=max(gmax,hmax);
*fmin=min(gmin,hmin);
}
}
int Min_Max::max(int max1,int max2)
{
if(max1>max2)
        return max1; else
return max2;
}
int Min_Max::min(int min1,int min2)
{
if(min1<min2)
        return min1; else
return min2;
}
void main()
{
int max,min;
//clrscr();
s.getdata();
s.min_max(1,s.n,&max,&min);
cout<<"\n The Maximum no is:- "<<max;
cout<<"\n The Minimum no is:- "<<min;
getch();
}
```

/*OUTPUT*/

How many element you want to enter:-6

Enter the Element:-56 43 89 76 22 32

The Maximum no is:- 89

The Minimum no is:- 22