```
#include<iostream.h>
void in(int a[],int l);
void print(int ar[],int size);
int main(){ int a[5]=\{1,2,3,4,5\};
in(a,5); return 0;}
                                        //insertion sort
void in(int a[],int l){
int i,j,t;
for(i=0;i<1;i++){} j=i;
while((i>0)&&(a[j-1]<a[j])){
t=a[i]; a[i]=a[i-1];
a[j-1]=t; i--; }
print(a,5); }}
void print(int a[],int size){
cout<<"sorting: "; int j;
for(j=0;j<size;j++)
cout<<" "<<a[i];
cout<<"\n";}
```

```
#include<iostream.h>
const int n=7;
int main(){
int a[n],j,small,i,t,z,x;
cout<<"enter the array "<<endl;
       for(z=0;z<n;z++)
       cin>>a[z];
       for(j=0;j<n;j++) {
                                     // selection sort
       small=j;
        for(i=j+1;i<n;i++)
        if(a[i]<a[small])
        {small=i; t=a[i];
        a[j]=a[small];
        a[small]=t; }}
        for(x=0;x<n;x++)
        cout<<a[x]<<" ";
        return 0;
```

```
#include<iostream.h>
const int s=7;
int main(){
int a[s],x, i,c=0;
cout<<"enter the array "<<endl; // sequntal search
       for(i=0;i<s;i++)
       cin>>a[s];
       cout<<"enter the element :"<<endl;
       cin>>x;
 for(i=0;i<s;i++){}
        if(a[i]!=x)
        cout<<x<<" not found"<<endl;
        else
        cout<<a[i]<<" found";
```

```
#include<iostream.h>
int main(){
int c,first,last,mid,n,search,a[12];
cout<<"enter n of elements \n";
cin>>n;
cout<<"enter array:\n";
for(c=0;c<n;c++)
cin>>a[c];
cout<<" enter x value: \n";
cin>>search;
first=0; last=n-1; mid=(first+last)/2;
while(first<=last){</pre>
if(a[mid]==search){
cout<<search<<" found in location"<<mid+1<<endl; break;}</pre>
else if(a[mid]<search)
first=mid+1;
else
last=mid-1;
mid=(first+last)/2;}
if (first>last)
cout<<"not found "<<search<<"is not present in array.\n";</pre>
return 0;}
```