

/Program to search an element through Binary Search.**

```
#include<stdio.h>
#include<conio.h>
#define size 10
Void main()
{
Int arr[size];
Int low,upper,mid,l,item;
Printf("enter elements of array in sorted order");
For(i=0;i<size;i++)
Scanf("%d",&arr[i]);
Printf("enter the item to be searched");
Scanf("%d",&item);
Low=0;
Up=size-1;
While(low<=up&&item!=arr[mid])
{
Mid=(low+up)/2;
If(item>arr[mid])
Low=mid+1;                                /* serch in right portion
If(item<arr[mid])
Up=mid-1;                                /*search in left portion
If(item==arr[mid])
Printf("%d found at position\n",item,mid+1);
If(low>up)
Printf("%dnot found in array\n",item);
}
}
```

/* program of sorting using selection sort*/

```
#include<stdio.h>
#include<conio.h>
#define size 10
void main()
{
    int arr[size];
    int i,j,temp;
    Printf("enter elements of the array");
    for(i=0; i<size;i++)
        Scanf("%d",arr[i]);
    for(i=0;i<size-1;i++)
        for(j=i+1;j<size;j++)
        {
            if(arr[i]>arr[j])
            {
                temp=arr[i];
                arr[i]=arr[j];
                arr[j]=temp;
            }
        }
    Printf("sorted arra is");
    for(i=0;i<size;i++)
        Printf("%d",arr[i]);
    Printf("\n");
}
```