```c
#include <stdio.h>
#include <conio.h>

int empty(int);
void makeempty(int *) ;
int create (int a[],int *);
void insert(int a[],int *,int);
int find(int a[],int *,int,int *);
void displaylist(int a[],int *) ;
void deleteitem(int a[],int *,int) ;
int kelement (int a[],int);

void main()
{int ch,item,pos,l,n=-1,a[100],start ;
clrscr();
do
{ printf("\n\n Enter 1 to create list \n Enter 2 to insert an element \n Enter 3 to find an
element \n Enter 4 to display list \n Enter 5 to delete an element \n Enter 6 to find kth
element \n Enter 7 to make the list empty \n Enter 8 to exit\n") ;
scanf("%d",&ch);

switch (ch)
{
case 1: n=create(a,&n);
    break;

case 2: printf("Enter Element ");
    scanf("%d",&item) ;
    insert(a,&n,item);
    break;

case 3: start=0 ;
    printf("Enter element to be found ");
    scanf("%d",&item);
    while(1)
    {
    l=find(a,&n,item,&start);
    if (l==-1)
    {   printf("\nEnd of Search") ;
        break ;                         }
    else
        printf("\nElement found at %d",l+1);
    }
    break;

case 4: displaylist(a,&n);
    break;

case 5: printf("Enter element to be deleted ");
    scanf("%d",&item);
    deleteitem(a,&n,item);
    break;

case 6: printf("Enter position ");
    scanf("%d",&pos);
    l=kelement(a,pos);
    printf("Element at given position = %d",l);
    break ;

case 7: makeempty(&n);
}
}while(ch!=8); }

int isempty(int *n)
{
if (*n==-1)
    return 1;
else
    return 0;
}
```

```c
void makeempty(int *n)
{*n=-1 ;}

int create (int a[],int *n)
{ int i=1 ;
    if (*n!=-1)
    {
        printf("\nCareful!!! Data will be Overwritten.....Enter 0 to Cancel ");
        scanf("%d",&i) ;
    }
if(i==1)
{printf("\nEnter the number of Elements ");
 scanf("%d",n);

 for(i=0;i<*n;i++)
 {
     printf("Enter Element no %d : ",i+1);
     scanf("%d",&a[i]) ;
 }
}
 return *n ;
}

void insert(int a[],int *n,int item)
{*n=*n+1 ;
 a[*n-1]=item;
}

void displaylist(int a[],int *n)
{
int i;
for(i=0;i<*n;i++)
    printf("%d ",a[i]);
}

void deleteitem (int a[],int *n,int item)
{
int i,j,x;
printf("\nEnter 1 to delete only First entry or Other Value to delete all ");
scanf("%d",&x) ;
for(i=0;i<*n;i++)
    if(a[i]==item)
    {
        printf("\nItem Deleted at Position %d",i+1)  ;
        for(j=i;j<(*n)-1;j++)
            a[j]=a[j+1];
        *n=*n-1 ;
        i--;
        if(x==1)
            break;
    }

}

int find (int a[],int *n,int item,int *start)
{int i;
for (i=*start;i<*n;i++)
    if(a[i]==item)
    {*start=i+1;
     return i;}
return -1 ;
}

int kelement (int a[],int pos)
{return a[pos-1] ;}
```