singly_link_list.h

```
struct node
{
int data:
struct node * next;
struct node * head=NULL, *ptr=NULL, *nw=NULL,*temp=NULL;
void create ()
{
int i,n,x;
printf("\n How many values : ");
scanf("%d",&n);
printf("\n Enter actual value : ");
for(i=0;i < n;i++)
nw=(struct node*)malloc(sizeof(struct node));
scanf("%d",&x);
nw->data=x;
nw->next=NULL;
if(head==NULL)
head=ptr=nw;
else
{
ptr->next=nw;
ptr=ptr->next;
}
void display()
ptr=head;
do
printf("%d \t",ptr->data);
ptr=ptr->next;
while(ptr!=NULL);
void insert()
int pos,count=1,x;
printf("\n Enter the position : ");
scanf("%d",&pos);
ptr=head;
nw=(struct node*)malloc(sizeof(struct node));
printf("Enter the value to insert : ");
scanf("%d",&x);
nw->data=x;
nw->next=NULL;
if(pos==1)
```

```
{
nw->next=head;
head=nw;
}
else
while(count!=pos-1);
ptr=ptr->next;
count++;
nw->next=ptr->next;
ptr->next=nw;
}
}
void delete()
 {
 int pos,count=1;
 ptr=head;
 printf("Enter the position : ");
 scanf("%d",&pos);
 if(pos==1)
 temp=head;
 printf("The deleted element is %d",temp->data);
 head=temp->next;
 head=head->next;
 free(temp);
 }
 else
 while(count!=pos-1)
 ptr=ptr->next;
 count++;
 if(ptr!=NULL)
 temp=ptr->next;
 printf("\n The deleted element is %d",temp->data);
 ptr->next=temp->next;
 free(temp);
 }
 else
 printf("\n position out of order");
 }
 }
 }
```

```
void search()
{
  int key,flag=0,x;
  printf("\n Enter the value searched:");
  scanf("%d",&key);
  ptr=head;
  while(ptr!=NULL)
  {
  if(ptr->data==key)
   {
  flag=1;
  break;
  }
  else
  {
  ptr=ptr->next;
  }
  }
  if(flag==1)
  printf("\n The element is found \n");
  else
  printf("\n The element not found \n");
}
```