## Doubly.h

```
struct node
{
int data;
struct node *next,*prev;
struct node *head=NULL,*ptr=NULL,*ptr1=NULL;
struct node *create()
struct node *ptr=NULL,*nw=NULL;
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",&nw->data);
nw->next=nw->prev=NULL;
if(head==NULL)
ptr=head=nw;
else
ptr->next=nw;
nw->prev=ptr;
ptr=ptr->next;
return (head);
void display()
struct node *ptr=NULL,*ptr1=NULL;
ptr=head;
do
printf("%d",ptr->data);
ptr1=ptr;
ptr=ptr->next;
while(ptr!=NULL);
//do
//{
//printf("%d",ptr1->data);
//ptr1=ptr1->prev;
//}
//while(ptr!=NULL);
void insert()
```

```
{
struct node *nw=NULL,*ptr=NULL,*ptr1=NULL;
int pos,count=1,x;
printf(" \n Enter position : ");
scanf("%d",&pos);
ptr=head;
nw=(struct node *)malloc(sizeof(struct node));
printf("\n 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;
}
struct node *delet()
struct node *ptr=NULL,*ptr1=NULL,*temp=NULL;
int i,pos;
printf("\n Enter position : ");
scanf("%d",&pos);
if(pos==1)
{
temp=head;
head=head->next;
head->prev=NULL;
}
else
for(ptr=head,i=1;i<pos-1 && ptr!=NULL;i++)
ptr=ptr->next;
if(ptr!=NULL)
temp=ptr->next;
if(temp->next!=NULL)
ptr1=temp->next;
ptr->next=ptr1;
ptr->prev=ptr;
```

```
}
else
ptr->next=NULL;
printf("The deleted element is %d",temp->data);
}}}
void search()
{
int key,flag=0,pos=1;
printf("Enter value to be searched : ");
scanf("%d",&key);
ptr=head;
do
if(ptr->data==key)
pos++;
flag=1;
break;
}
else
ptr=ptr->next;
}while(ptr!=head);
if(flag==1)
printf("\n Element is found at position %d",pos);
else
printf("\nElement not found");
```