```c
#include<stdio.h>

#include<conio.h>

#include<stdlib.h>


struct node

{

    char ssn[20],name[20],dept[20],desig[20],phno[10];

    long int sal;

    struct node *next,*prev;

};
typedef struct node *NODE;


NODE head=NULL;


NODE getnode()

{

        NODE temp;

        temp=(NODE)malloc(sizeof(struct node));

    temp->next=NULL;

        temp->prev=NULL;

        puts("\n enter SSN, NAME, DEPT., DESIGNATION, PHONE NUMBER");

    scanf("%s%s%s%s%s",temp->ssn,temp->name,temp->dept,temp->desig,temp->phno);

    puts("enter salary");

    scanf("%ld",&temp->sal);

    return temp;

}



void Insert_beg()

{

    NODE temp=getnode();
```

```c
   if(head!=NULL)

     {

      temp->next=head;

      head->prev=temp;

     }

   head=temp;

}


void Insert_end()

{

  NODE temp=getnode();

  NODE tt;

  if(head==NULL)

          head=temp;

  else

   {

       for(tt=head;tt->next!=NULL;tt=tt->next)

         { }

       tt->next=temp;

       temp->prev=tt;

   }

}


void Create()

{

 int n,i;

 printf("enter the n\n");

 scanf("%d",&n);

 for(i=0;i<n;i++)

         Insert_end();

}
```

```c
void Delete_beg()
{
NODE temp=head;
if(head==NULL)
    printf("List is empty\n");
else
 {
        head=head->next;
        head->prev=NULL;
  }
free(temp);
}


void Delete_end()
{
        NODE tt,temp;
        if(head==NULL)
                printf("List is empty\n");

        else if(head->next==NULL)
       head=NULL;
        else
         {
    for(tt=head;tt->next->next!=NULL;tt=tt->next)
     { }
            tt->next=NULL;
        }
        free(temp);
}
```

```c
void display()
{
NODE temp;
int count=0;
if(head==NULL)
{
        printf("no node to display\n");
        return;
}


printf("\n SSN\t NAME\t, DEPT\t, DESIG\t, SAL\t, PH.NO\t");
printf("\n-----------------------------------------\n");
for(temp=head;temp!=NULL;temp=temp->next)
{
    count++;
    printf("%s\t %s\t %s\t %s\t %ld\t %s\n", temp->ssn, temp->name, temp-> dept,temp->desig,
temp->sal, temp->phno);
}
printf("\n---------------------------------------\n");
printf("\n the total number of nodes in list is %d\n", count);
printf("\n-----------------------------------------\n");
}

void main()
{
        int ch;


        while(1)
        {
    printf("\n\n\n\t 1.create DLL...\t 2.Display DLL..\t 3.Insertion at front...\t 4.Insertion at end...\t
5.deletion at front...\t 6. Deletion at end....\t presss any key to exit\n");
            printf("\n\n\n\tEnter Your Choice: ");
```

```c
scanf("%d",&ch);
switch(ch)
{
        case 1:  Create();
                display();
                break;
        case 2: display();
                break;
        case 3:  Insert_beg();
                display();
                break;
        case 4: Insert_end();
                display();
                break;
        case 5: Delete_beg();
                display();
                break;
        case 6:Delete_end();break;
        default: exit(0);
        }
    }
}
```