```
#include<stdio.h>
#include<stdlib.h>
struct node
{
       int data;
       struct node *next;
       struct node *prev;
};
struct node *head=NULL;
void insert beg()
{
       struct node *new_node;
       new_node=(struct node*)malloc(sizeof(struct node));
        printf("Enter the item\n");
       scanf("%d",&new_node->data);
        new_node->next=NULL;
        new_node->prev=NULL;
       if(head==NULL)
                     head=new node;
       else
        {
                     new_node->next=head;
                     head->prev=new_node;
                     head=new_node;
       }
}
void insert_end()
       struct node *new_node, *temp;
       new_node=(struct node*)malloc(sizeof(struct node));
       printf("Enter the item\n"); scanf("%d",&new_node->data);
       new_node->next=NULL;
       new_node->prev=NULL;
       if(head==NULL)
              head=new_node;
       else
               temp=head;
               while(temp->next!=NULL)
               temp=temp->next;
               temp->next=new_node;
               new_node->prev=temp;
       }
}
void del()
       struct node *temp;
       int ele;
  if(head==NULL)
```

```
printf("Empty List \n");
     return;
  }
       printf("Enter the element to be deleted\n");
       scanf("%d",&ele);
       temp=head;
       while(temp->data!=ele)
               temp=temp->next;
               if(temp==NULL)
                printf("Element is not in the list\n");
                break;
        if(temp==head)
                head=head->next;
        else if(temp->next==NULL)
                       temp=temp->prev;
                       temp->next=NULL;
        }
        else
        {
                temp->prev->next=temp->next;
                temp->next->prev=temp->prev;
        }
void display()
        struct node *temp;
        temp=head;
        while(temp!=NULL)
                printf("%d\t",temp->data);
                temp=temp->next;
        printf("\n");
}
int main()
       int choice;
        while(1)
                       printf(" 1. Create a double linked list \n");
                       printf(" 2. Insert at the beginning(Left of node)\n");
                       printf(" 3. Delete \n");
                       printf(" 4. Display\n");
                       printf(" 5. Exit\n");
                       printf("Enter your choice\n"); scanf("%d",&choice);
                       switch(choice)
```