

Dear Sir
Ningbo

```
case 2: printf("Enter element to be deleted\n");
        scanf("%d", &element);
        delete(element);
        break;
case 3: display();
        break;
case 4: insertbefore();
        break;
```

```
}
printf("Do you want to continue\n");
fflush(stdin);
scanf("%c", &ch);
} while(ch == 'y' || ch == 'Y');
}
```

```
void create()
{
    struct node *temp, *newnode;
    int item;
    newnode = (struct node *)malloc(sizeof(struct node));
    printf("Enter element: \n");
    scanf("%d", &item);
    newnode->data = item;
    if(head == NULL)
    {
        newnode->next = NULL;
        head = newnode;
        printf("node created\n");
    }
}
```

else

{

temp = head;

while (temp != NULL);

{

temp = temp → next;

}

temp → next = newnode;

newnode → next = NULL;

printf("Node created \n");

}

}

void display()

{

struct node *ptr = NULL;

ptr = head;

if (ptr == NULL)

{

printf("List empty \n");

}

else

{

while (ptr != NULL);

{

printf("%d \n", ptr → data);

ptr = ptr → next;

}

}

}

```
void delete(int ele)
```

```
{
```

```
    struct node *temp, *del = NULL;
```

```
    if (head == NULL)
```

```
    {
```

```
        printf("Nothing to delete\n");
```

```
        return;
```

```
    }
```

```
    temp = head;
```

```
    if (head->data == ele)
```

```
    {
```

```
        head = head->next;
```

```
        return;
```

```
    }
```

```
    while (temp->next != NULL)
```

```
    {
```

```
        if (temp->next->data == ele)
```

```
        {
```

```
            del = temp->next;
```

```
            if (del->next == NULL)
```

```
                temp->next = NULL;
```

```
            else
```

```
                temp->next = del->next;
```

```
        }
```

```
    } else
```

```
        temp = temp->next;
```

```
    }
```

```
    if (del == NULL)
```

```
    {
```

```
        printf("Element not found in the list\n");
```

```
        return;
```

```
    }
```

```
}
```

```
void insertbefore()  
{  
    struct node *newnode;  
    int ele;  
    printf("Enter the element\n");  
    scanf("%d", &ele);  
    newnode->data = ele;  
    newnode->next = head;  
    newnode  
    head = newnode;  
}
```