

#include &lt;stdio.h&gt;

#include &lt;stdlib.h&gt;

struct node {

int data;

struct node \* prev;

struct node \* next;

};

struct node \* head;

void create () {

struct node \* newnode, \* temp;

int choice = 1;

head = NULL;

while (choice != 0) {

newnode = (struct node \*) malloc (sizeof (struct node));

printf ("Enter the data: ");

scanf ("%d", &amp; newnode-&gt;data);

newnode-&gt;prev = NULL;

newnode-&gt;next = NULL;

if (head == NULL) {

temp = head = newnode;

}

else {

temp-&gt;next = newnode;

newnode-&gt;prev = temp;

temp = newnode;

}

printf ("Do you want to continue? (1/0): ");

scanf ("%d", &amp; choice);

}

void display() {

start node \*temp;

temp = head;

if (temp == NULL) {

printf("List is empty\n");

} else {

printf("Elements of the list :");

while (temp != NULL) {

printf("%d", temp->data);

temp = temp->next;

printf("\n");

}

}

void deleteSpecific() {

start node \*temp, \*prev node, \*next node;

int value;

if (head == NULL) {

printf("List is empty\n");

return;

}

printf("Enter the data to delete");

scanf("%d", &value);

temp = head;

while (temp != NULL && temp->data != value)

temp = temp->next;

}

if (temp == NULL) {

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

return;

}



prev-node = temp → prev;

next-node = temp → next;

if (prev-node != NULL) {

prev-node → next = next-node;

}

else {

head = next-node;

}

if (next-node != NULL) {

next-node → prev = prev-node;

}

for (temp);

}

void insertleft (int item) {

struct node \*temp, \*temp1, \*newnode;

temp = head;

newnode = (struct node \*) malloc (sizeof (struct node));

newnode → data = item;

newnode → prev = 0;

newnode → next = 0;

int value;

printf ("enter value left to insert : ");

scanf ("%d", &value);

while (temp → data != value) {

temp = temp → next;

}

temp → prev = temp → prev;

```
if (temp1 == 0) {
```

```
    newnode → next = temp1;
```

```
    temp1 = newnode;
```

```
    head = newnode;
```

```
}
```

```
else {
```

```
    newnode → prev = temp2;
```

```
    newnode → next = temp1;
```

```
    temp1 → next = newnode;
```

```
    temp2 → prev = newnode;
```

```
}
```

```
}
```

```
int main() {
```

```
    create();
```

```
    display();
```

```
    deleteSpecific();
```

```
    display();
```

```
    insertAt(5);
```

```
    display();
```

```
    return 0;
```

```
}
```

Output

Enter data: 2

Do you want to continue (Y/N): Y

Enter data: 2

Do you want to continue (Y/N): N

Elements in the list: 2 2

Enter the data to delete: 2



Elements of the list : 2

which mod value left to next ? 2 2

Elements of the list :

5 2

✓  
Yes