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18M19CS202

3-D

Lab internal -2

URBAN
EDGE

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
#include <string.h>
```

```
struct node {
```

```
    char usr[20];
```

```
    char name[30];
```

```
    struct node *next;
```

```
    struct node *prev;
```

```
};
```

```
struct node *head = NULL;
```

```
void insert_end() {
```

```
    struct node *new_node, *temp;
```

```
    new_node = (struct node*) malloc (sizeof(struct node));
```

```
    printf("Enter the user id");
```

```
    scanf(" %s", new_node->usr);
```

```
    printf("Enter name");
```

```
    scanf(" %s", new_node->name);
```

```
    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;

char ele[30];

if (head == NULL) {

printf("empty list\n");

return;

printf("Enter usn to be deleted\n");

scanf("%s", ele);

temp = head;

while (strcmp(temp->usn, ele) != 0) {

temp = temp->next;

if (temp == NULL) {

printf("Element 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("usn: %s\n", temp->usn);

printf("name: %s\n", temp->name);

temp = temp->next;

} printf("\n"); }


```
int main() {
```

```
    int choice;
```

```
    while(1) {
```

```
        printf("1. Insert\n");
```

```
        printf("2. Delete\n");
```

```
        printf("3. Display\n");
```

```
        printf("4. Exit\n");
```

```
        printf("Enter your choice\n");
```

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

```
        switch (choice) {
```

```
            case 1: insert_cnd();
```

```
                break;
```

```
            case 2: del(); break;
```

```
            case 3: display(); break;
```

```
            case 4: exit(0);
```

```
        }
```

```
    }
```

```
}
```