

## Test :- 2

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USN :- 1BM L9C5128

Lab :- Test-2

Date :- 4/1/2021

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struct node {

char usn[30];

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 usn \n");

scanf ("%s", new\_node -> usn);

printf ("Enter the name \n");

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;



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temp->next = new_node;
new_node->prev = temp;
}
}

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void del() {

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    struct node *temp;

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    char ele[30];

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    if (head == NULL) {

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        printf("Empty List \n");

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        return;
    }

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```

    printf("Enter the user to be deleted \n");

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    scanf("%s", ele);

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    temp = head;

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

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        temp = temp->next;

```

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    } if (temp == NULL) {

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        printf("Element is not in list \n");

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        break;
    }

```

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    if (temp == head)

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        head = head->next;

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    else if (temp->next == NULL) {

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        temp = temp->prev;

```

```

        temp->next = NULL;
    }

```

```

}

```



else h

temp → prev → next → temp → next;

temp → next → prev ← temp → prev;

}

}

void display() {

struct node \*temp;

temp = head;

while (temp != NULL) {

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

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

printf

temp = temp->next;

}

}

int main() {

int choice;

while (1) {

printf("1. Insert USN-NAME\n");

printf("2. Delete by USN\n");

printf("3. Display\n");

printf("4. Exit\n");

printf("Enter your choice\n");

scanf("%d", &choice);

switch (choice) {

case 1: insert\_ends; break;

case 2: del(); break;

case 3: display(); break;

case 4: exit(0);

}

}

}

}