C Program To print Linkedlist

#include <stdio.h>

#include <stdlib.h>

struct Node {

int data;

struct Node\* next;

};

void insertEnd(struct Node\*\* head, int newData) {

struct Node\* newNode = (struct Node\*)malloc(sizeof(struct Node));

newNode->data = newData;

newNode->next = NULL;

if (\*head == NULL) {

\*head = newNode;

return;

}

struct Node\* current = \*head;

while (current->next != NULL) {

current = current->next;

}

current->next = newNode;

}

void deleteNode(struct Node\*\* head, int key) {

if (\*head == NULL)

return;

struct Node\* temp = \*head;

if (temp != NULL && temp->data == key) {

\*head = temp->next;

free(temp);

return;

}

struct Node\* prev = NULL;

while (temp != NULL && temp->data != key) {

prev = temp;

temp = temp->next;

}

if (temp == NULL)

return;

prev->next = temp->next;

free(temp);

}

// Function to display the linked list

void displayList(struct Node\* head) {

struct Node\* current = head;

while (current != NULL) {

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

current = current->next;

}

printf("NULL\n");

}

int main() {

struct Node\* head = NULL;

insertEnd(&head, 1);

insertEnd(&head, 2);

insertEnd(&head, 3);

insertEnd(&head, 4);

printf("Linked list: ");

displayList(head);

deleteNode(&head, 2);

printf("Linked list after deleting 2: ");

displayList(head);

return 0;

}

OUTPUT

Linked list: 1 -> 2 -> 3 -> 4 -> NULL

Linked list after deleting 2: 1 -> 3 -> 4 -> NULL

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Process exited after 0.0373 seconds with return value 0

Press any key to continue . . .