Program 6 (Deletion _ Linked List)

```
struct node {
        int data;
        struct node * next;
};

Struct node * head;

void del_at_first() {
        if (head == NULL) {
            printf("No elements present
                    to delete \n");
            return;
        }
        struct node * temp = head;
        head = head -> next;
        free(temp);
        printf("Element deleted");
}
void del_at_end() {
        if (head == NULL) {
            printf("No elements\n");
            return;
        }
        if (head -> next == NULL) {
            delete_at_first();
            return;
        }
```

```
struct node *temp = head;
while(temp -> next -> next != NULL){
        temp = temp -> next;
}
free(temp -> next);
temp -> next = NULL;
printf("Element at last deleted\n");
}

void del_at_anypos(int pos){
    if(head == NULL){
        printf("No elements present
                to delete");
        return;
    }
    if(pos == 1){
        delete_at_first();
        return;
    }
    if(pos > length()){
        delete_at_end();
        return;
    }
    struct node *prev = head;
    int jump = 1;
    while(jump < pos-1){
        prev = prev -> next;
        jump++;
    }
```

```
struct node* temp = prev->next;
prev->next = temp->next;
free(temp);
printf("Element at :d
        deleted\n", pos);
}
```