

INSERT LAST

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/*****    Program to Insert Last Node in a Linked List    *****/

#include <stdio.h>

void insert_last();
void display();

struct node
{
    int info;
    struct node *link;
} *start=NULL;

int item;

main()
{
    int ch;

    do
    {
        printf("\n\n1. Insert Last\n2. Display\n3. Exit\n");
        printf("\nEnter your choice: ");
        scanf("%d", &ch);

        switch(ch)
        {
            case 1:
                insert_last();
                break;

            case 2:
                display();
                break;

            case 3:
                exit(0);

            default:
                printf("\n\nInvalid choice. Please try again.\n");
        }
    } while (1);
}
```

```
void insert_last()
{
    struct node *ptr;
    printf("\n\nEnter item: ");
    scanf("%d", &item);

    if(start == NULL)
    {
        start = (struct node *)malloc(sizeof(struct node));
        start->info = item;
        start->link = NULL;
    }
    else
    {
        ptr = start;
        while (ptr->link != NULL)
            ptr = ptr->link;

        ptr->link = (struct node *)malloc(sizeof(struct node));
        ptr = ptr->link;
        ptr->info = item;
        ptr->link = NULL;
    }

    printf("\nItem inserted: %d\n", item);
}

void display()
{
    struct node *ptr = start;
    int i=1;

    if (ptr == NULL)
        printf("\nLinklist is empty.\n");
    else
    {
        printf("\nSr. No.\t\tAddress\t\tInfo\t\tLink\n");

        while(ptr != NULL)
        {
            printf("\n%d.\t\t%d\t\t%d\t\t%d\n", i, ptr, ptr->info,
                ptr->link);

            ptr = ptr->link;
            i++;
        }
    }
}
```