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Practical No: “X”

Aim: Creating a Link List

**CODE:**

#include <stdio.h>

#include <malloc.h>

#include <stdlib.h>

int main(){

struct node{

int num;

struct node \*ptr;

};

typedef struct node NODE;

NODE \*head, \*first, \*temp = 0;

int count = 0;

int choice = 1;

first = 0;

while (choice){

head = (NODE \*)malloc(sizeof(NODE));

printf("Enter the data item\n");

scanf("%d", &head->num);

if (first != 0){

temp->ptr = head;

temp = head;

}

else{

first = temp = head;

}

fflush(stdin);

printf("Do you want to continue(Type 0 or 1)?\n");

scanf("%d", &choice);

}

temp->ptr = 0;

/\* reset temp to the beginning \*/

temp = first;

printf("\n status of the linked list is\n");

while (temp != 0){

printf("%d=>", temp->num);

count++;

temp = temp->ptr;

}

printf("NULL\n");

printf("No. of nodes in the list = %d\n", count);

return 0;

}

**OUTPUT:**

