```
#include <stdio.h>
#include <stdlib.h>
struct node {
  int num;
  struct node *nextptr;
} *stnode;
void createNodeList(int n);
void displayList();
int main() {
  int n;
  printf("\n\n Linked List : To create and display Singly Linked List :\n");
  printf("-----\n");
  printf(" Input the number of nodes : ");
  scanf("%d", &n);
  createNodeList(n);
  int c=countList();
  printf("\n Number of nodes : %d\n",c);
  printf("\n Data entered in the list : \n");
  displayList();
  return 0;
}
void createNodeList(int n) {
  struct node *fnNode, *tmp;
  int num, i;
  stnode = (struct node *)malloc(sizeof(struct node));
  if(stnode == NULL) {
    printf(" Memory can not be allocated.");
  } else {
```

```
printf(" Input data for node 1 : ");
    scanf("%d", &num);
    stnode->num = num;
    stnode->nextptr = NULL;
    tmp = stnode;
    for(i = 2; i \le n; i++) {
      fnNode = (struct node *)malloc(sizeof(struct node));
      if(fnNode == NULL) {
         printf(" Memory can not be allocated.");
         break;
      } else {
        printf(" Input data for node %d : ", i);
        scanf(" %d", &num);
        fnNode->num = num;
        fnNode->nextptr = NULL;
        tmp->nextptr = fnNode;
        tmp = tmp->nextptr;
      }
    }
 }
}
int countList()
  int ctr = 0;
  struct node *tmp;
  tmp = stnode;
  // Counting the nodes by traversing the linked list
  while(tmp != NULL) {
    ctr++;
    tmp = tmp->nextptr;
  }
  return ctr;
}
void displayList() {
```

```
struct node *tmp;

if(stnode == NULL) {
    printf(" List is empty.");
} else {
    tmp = stnode;

printf("Linked List :\n");
    while(tmp != NULL) {
        printf("%d-->", tmp->num);
        tmp = tmp->nextptr;
    }
}
printf("NULL");
```