**1. SINGLY LINKED LIST**

Given the head of a singly linked list, return number of nodes present in a linked

Example 1:

1->2->3->5->8

Output 5

C Program

#include <stdio.h>

#include <stdlib.h>

struct Node {

int data;

struct Node\* next;

};

int countNodes(struct Node\* head) {

int count = 0;

struct Node\* current = head;

while (current != NULL) {

count++;

current = current->next;

}

return count;

}

int main() {

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

head->data = 1;

head->next = (struct Node\*)malloc(sizeof(struct Node));

head->next->data = 2;

head->next->next = (struct Node\*)malloc(sizeof(struct Node));

head->next->next->data = 3;

head->next->next->next = (struct Node\*)malloc(sizeof(struct Node));

head->next->next->next->data = 5;

head->next->next->next->next = (struct Node\*)malloc(sizeof(struct Node));

head->next->next->next->next->data = 8;

head->next->next->next->next->next = NULL;

int nodeCount = countNodes(head);

printf("Number of nodes in the linked list: %d\n", nodeCount);

return 0;

}

