Given a singly linked list and a key, count the number of occurrences of the given key in the linked list. For example, if the given linked list is 1->2->1->2->1->3->1 and the given key is 1, then the output should be 4.

If the key is not present then print “Key not found”;

Ans:

#include <iostream>

using namespace std;

struct link

{

int data;

struct link \*next;

};

struct link \*start=NULL;

struct link \*node;

struct link \*current;

void create()

{

int n;

cout<<"how many nodes u want to create ";

cin>>n;

cout<<"Enter all elements ";

for(int i=0;i<n;i++)

{

node=(struct link \*)malloc(sizeof(struct link));

cin>>node->data;

node->next=NULL;

if(start==NULL)

{

start=node;

current=node;

}

else

{

current->next=node;

current=node;

}

}

}

void display()

{

int key,ctr=0;

cout<<"Enter the key ";

cin>>key;

struct link \*ptr=start;

while(ptr!=NULL)

{

if(ptr->data==key)

ctr++;

ptr=ptr->next;

}

if(ctr==0)

{

cout<<"Key not found";

}

else

{

cout<<"The key "<<key <<"present" <<ctr <<"times";

}

}

int main()

{

create();

display();

return 0;

}