3.  Write C Program to create Singly Liked List with n elements and reverse the elements

#include <stdio.h>

struct node{

int data;

struct node \*next;

};

struct node \*head, \*tail = NULL;

void addNode(int data) {

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

newNode->data = data;

newNode->next = NULL;

if(head == NULL) {

head = newNode;

tail = newNode;

}

else {

tail->next = newNode;

tail = newNode;

}

}

void reverse(struct node \*current) {

if(head == NULL) {

printf("List is empty\n");

return;

}

else{

if(current->next == NULL) {

printf("%d ", current->data);

return;

}

reverse(current->next);

printf("%d ", current->data);

}

}

void display() {

struct node \*current = head;

if(head == NULL) {

printf("List is empty\n");

return;

}

while(current != NULL) {

printf("%d ", current->data);

current = current->next;

}

printf("\n");

}

int main()

{

addNode(1);

addNode(2);

addNode(3);

addNode(4);

printf("Original List: \n");

display();

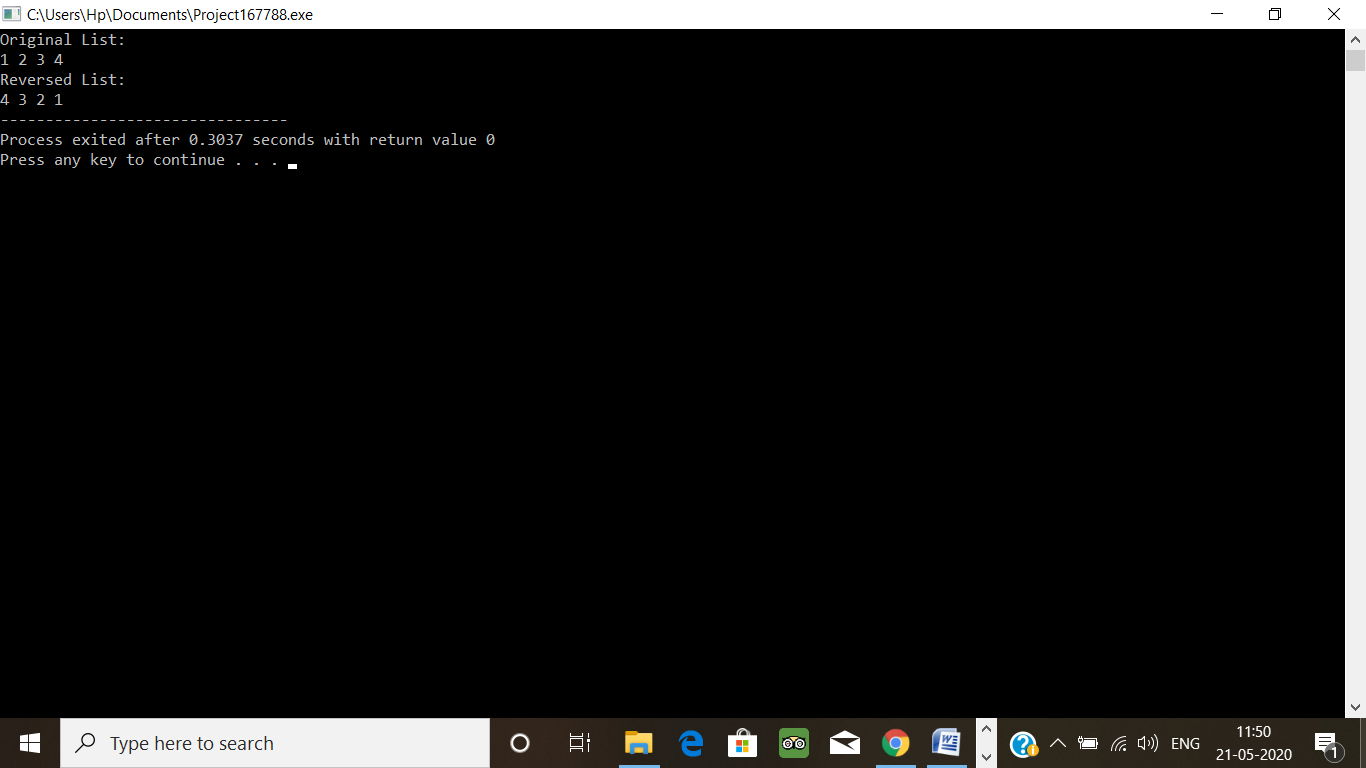
printf("Reversed List: \n");

reverse(head);

return 0;

}

OUTPUT:-

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