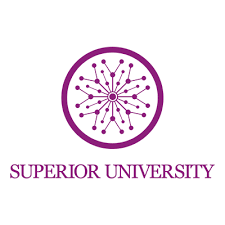
**TASK NO 3**

****

**Name:  
M. Zuhaib Anwar**

**Class :**

**SE – 3A**

**Roll No:**

**SU92-BSSEM-S24-005**

#include <iostream>

using namespace std;

class Node {

public:

int data;

Node\* next;

Node(int val) : data(val), next(nullptr) {}

};

class SLL {

private:

Node\* head;

public:

SLL() : head(nullptr) {}

void insert\_at\_start(int val) {

Node\* newNode = new Node(val);

newNode->next = head;

head = newNode;

displayList();

}

void insert\_at\_end(int val) {

Node\* newNode = new Node(val);

if (head == nullptr) {

head = newNode;

} else {

Node\* temp = head;

while (temp->next != nullptr) {

temp = temp->next;

}

temp->next = newNode;

}

displayList();

}

void displayList() {

Node\* temp = head;

while (temp != nullptr) {

cout << temp->data << " -> ";

temp = temp->next;

}

cout << "nullptr" << endl;

}

};

int main() {

SLL list;

list.insert\_at\_start(100);

list.insert\_at\_start(200);

list.insert\_at\_end(300);

list.insert\_at\_end(400);

}

OUTPUT:

