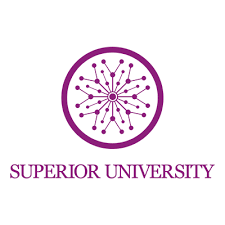
**TASK NO 4**

****

**Name:  
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**Class :**

**SE – 3A**

**Roll No:**

**SU92-BSSEM-S24-005**

#include <iostream>

using namespace std;

class Node {

public:

int data;

Node\* next;

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

};

class SLL {

private:

Node\* head;

public:

SLL() : head(nullptr) {}

void insert\_at\_pos(int pos, int d)

{

if (pos < 1)

{

cout << "Invalid Position" << endl;

return;

}

Node\* newNode = new Node(d);

if (pos == 1)

{

newNode->next = head;

head = newNode;

return;

}

Node\* temp = head;

int i = 1;

while (temp && i < pos - 1)

{

temp = temp->next;

i++;

}

if (!temp)

{

cout << "Invalid Position" << endl;

delete newNode;

return;

}

newNode->next = temp->next;

temp->next = newNode;

}

void print\_list()

{

if (!head)

{

cout << "Empty" << endl;

return;

}

Node\* temp = head;

while (temp)

{

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

temp = temp->next;

}

cout << endl;

}

};

int main() {

SLL list;

list.insert\_at\_pos(1, 10);

list.insert\_at\_pos(2, 20);

list.insert\_at\_pos(2, 15);

list.insert\_at\_pos(4, 25);

list.insert\_at\_pos(3, 30);

list.print\_list();

}

OUTPUT:

