



NATIONAL UNIVERSITY
of Computer & Emerging Sciences

Class Assignment

Student Name:

Roll No _____

Program: BS(CS)

Semester: Fall-2024

Time Allowed: 15 Mins

Course: Programming Fundamentals

Examination: Class Assignment

Total Marks: 10 : Weightage 2.5

Instructor Name: Sir Samin Ahmed

Date :

Instructions:

Understanding a question is also a part of the class Assignment.

No discussions allowed

Solve the Assignment on Question paper (front and back)

```
#include <iostream>
using namespace std;
int fun(int n)
{
    if (n <= 0)
        return 0;
    int sum= n + fun(n - 1);
    return sum
}
int main()
{
    cout << fun(3) ;
}
```

1. The output of the program.
2. Visualise the stack growth and shrinkage during the execution of the program.
3. Indicate the value of **sum** at each level of the stack during the execution.

