



American International University-Bangladesh (AIUB)

Department of Computer Science Faculty of Science & Technology (FST)

Final Term Assignment

Course Name	INTRODUCTION TO PROGRAMMING LAB [Fall 2023-2024]			Set
Faculty Name	SALAHUDDIN ELIAS KHAN			S
Student Name				
Student ID				
Section		Date		

❖ Instructions:

- In order to submit your assignment in teams just upload your **.cpp file**, Rename the folder with your name, ID and section.

Example:

1. Salahuddin Elias Khan [20-44139-2] [IP-A].cpp
 2. Salahuddin Elias Khan [20-44139-2] [IP-H].cpp
- Do not copy your code from your friends. If you do there will be consequences.
 - Do not use ChatGPT or any other AI tools. If you do there will be consequences.
 - Make sure to turn in your assignments by the deadline. Marks will be deducted for late submissions.

Questions	Marks
<p>Write a C++ program which implements a simple student portal system using object-oriented programming concepts. The program includes two classes, “user” and “student”, along with a main function that acts as the program's entry point. Use constructor and destructors in both classes. The “student” class must have the given 3 functions. Use access modifiers and inheritances as shown in the figure below. Try to use a console like your mid-term assignment to get bonus marks.</p> <p>❖ <i>Hint: You must control infinite loop along with clear screen command to make a proper console.</i></p>	30

Base Class

Class User

```
private:  
    string name;  
    int age;  
public:  
    user(string n, int a)  
    Function() // As needed  
    ~user()
```



Derived Class

Class Student

```
private:  
    string SID;  
    string course[5];  
    int course_count;  
public:  
    student(string sid, string n, int a)  
    Display_student_info()  
    void Display_courses()  
    void Add_Course(string c)  
    ~student()
```