**Assignment 10 ­ Access Modifiers**

You don't have to write any code for this assignment. Just need to write your comments

**Problem 1:** Mention if the code below will run successfully or not.

class Student{

protected int \_age;

int \_rollNo;}

class CollegeStudent{

public static void Main(){

CollegeStudent stu = new CollegeStudent();

stu.\_age = 10;}

}

Give the reasons for running the code or failing the code.

**Comments:** The above code will fail because the access modifier of \_age variable is protected. And protected members are available only within the containing class and its derived classes. As CollegeStudent class does not inherit Student class, the use of stu.\_age variable will throw the error.

**Problem 2:** Assume we have another assembly (University) where you refer your

Students assembly. \_age variable in student class is declared as protected internal.

namespace University

{

class univPeople{

Students[] students = new Student[3];

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WorkingStaff[] staffMembers;

//Const logic for this class which fills in both the array of student and staff

public univPeople{

Student Ankit = new Student();

Ankit.fullName="Ankit Mathur";

Ankit.\_age = 25;

students[0]=Ankit;

}}}

Assume there is no property exposed for \_age variable in Student class.

**Comments:** The above code will fail because the access modifier of \_age variable is protected Internal. And protected internal members are available only within the containing assembly and in another assembly class which must be derived from the containing class. As University is another assembly and the class that uses \_age variable is univPeople but this univPeople class does not inherit Student class, so the use of Ankit.\_age variable will throw the error.