

Student name:.....

Roll number:

Programming with .NET Assemblies

Lab 2

(85 minutes)

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Goals:

The goal of Lab 2 is to develop a Custom Assembly and a Console Application using it.

System description:

System A must have the following requirements:

- 1) Build 01 Project Class Library includes 03 class :
 - a. 01 father class is Staff with properties as ID, Name, Age, Rate_Salary, Basic_Salary and methods Caculate_Salary (), Caculate_Salary (int Allowance) and ShowInfor(all information ID, Name, Age, TotalSalary) - **(3 marks)**
 - Caculate_Salary : return Rate_Salary * Basic_Salary
 - Caculate_Salary (int Allowance): return Rate_Salary * Basic_Salary + (Rate_Salary * Basic_Salary * Allowance)/100
 - b. 01 child class Office_Staff with properties Number_NonWorkingDay, Money_Decrease and method Caculate_Salary (), Caculate_Salary (int Allowance) and ShowInfor(all information ID, Name, Age, TotalSalary) - **(2 marks)**
 - Caculate_Salary : return Caculate_Salary - Number_NonWorkingDay * Money_Decrease
 - Caculate_Salary (int Allowance): return Caculate_Salary(int Allowance) - Number_NonWorkingDay * Money_Decrease
 - c. 01 child class Manager with properties Number_BusinessDay, Money_Increase and method Caculate_Salary (), Caculate_Salary (int Allowance) and ShowInfor(all information ID, Name, Age, TotalSalary) - **(2 marks)**
 - Caculate_Salary : return Caculate_Salary + Number_ BusinessDay * Money_ Increase
 - Caculate_Salary (int Allowance): return Caculate_Salary(int Allowance) + Number_ BusinessDay * Money_ Increase
- 2) Build 01 Project Console Application using Class Library:
 - a. Input from keyboard 02 Office_Staff, 02 Manager - **(2 marks)**
 - b. Display all information - **(1 marks)**

Sample Input and Ouput:

```
---- Human Resource Management ----
Input Office staff: #1
ID: 1
Name: Nguyen Tung Duong
Age: 25
Rate salary: 4.2
Basic salary: 1390000
Allowance: 500000
Number non-working day: 2
Money decrease: 50000
-----
Input Office staff: #2
ID: 2
Name: Pham Tien Dung
Age: 37
Rate salary: 6.0
Basic salary: 1390000
Allowance: 1000000
Number non-working day: 0
Money decrease: 100000
-----

-- Information Office staff --
ID: 1
Name: Nguyen Tung Duong
Age: 25
Total salary: 28695638000
ID: 2
Name: Pham Tien Dung
Age: 37
Total salary: 83408340000
```

```
Input Manager: #1
ID: 3
Name: Bui Tuan Nam
Age: 40
Rate salary: 7.0
Basic salary: 1390000
Allowance: 1500000
Number business day: 5
Money increase: 300000
-----
Input Manager: #2
ID: 4
Name: Nguyen Hoang Nam
Age: 45
Rate salary: 7.5
Basic salary: 1390000
Allowance: 2000000
Number business day: 3
Money increase: 350000
-----

-- Information Manager --
ID: 3
Name: Bui Tuan Nam
Age: 40
Total salary: 168462730000
ID: 4
Name: Nguyen Hoang Nam
Age: 45
Total salary: 229512525000
```