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**Subject : 2nd C Sharp Assignment**

1. Q. Develop Employee Management System for Litware Organization. Write a Class Library project LitwareLib.
   1. Add class Employee with following private members:
      * EmpNo int
      * EmpName string
      * Salary double
      * HRA double
      * TA double
      * DA double
      * PF double
      * TDS double
      * NetSalary double
      * GrossSalary double.

Write methods for accepting EmpNo, EmpName and Salary. HRA, TA, DA, PPF, TDS, NET, GROSS should be calculated automatically. Follow the table for calculations.

|  |  |  |  |
| --- | --- | --- | --- |
| Salary | HRA % of Salary | TA % of Salary | DA % of Salary |
| <5000 | 10 | 5 | 15 |
| <10000 | 15 | 10 | 20 |
| <15000 | 20 | 15 | 25 |
| <20000 | 25 | 20 | 30 |
| >=20000 | 30 | 25 | 35 |

## GrossSalary = Salary + HRA + TA + DA.

Calculate PF, TDS and Net salary in a function named “CalculateSalary()”

## PF = 10 % of GrossSalary. TDS = 18 % of GrossSalary.

NetSalary = GrossSalary – (PF + TDS).

Write a console application Employee Management which allow HR staff member to register newly joined employee with EmpNo, EmpName and Salary. Display gross salary of employee on console. LitwareLib class Library will be used in Test console application for creating objects and invoking functionality of Employee class. Use Exception Handling mechanism wherever necessary.

**Solution :**

**//** Class Library File :

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace LitwareLib

{

public class Employee

{

private int EmpNo;

private string EmpName;

private double Salary;

private double HRA;

private double TA;

private double DA;

private double PF;

private double TDS;

private double NetSalary;

private double GrossSalary;

public double getGrossSalary(int EmpId, string EmpName, int Sal)

{

Salary = Sal;

if (Salary < 5000)

{

HRA = (Salary \* 0.1);

TA = (Salary \* 0.05);

DA = (Salary \* 0.15);

GrossSalary = Salary + HRA + TA + DA;

}

else if (Salary > 5000 && Salary <= 10000)

{

HRA = (Salary \* 0.15);

TA = (Salary \* 0.10);

DA = (Salary \* 0.20);

GrossSalary = Salary + HRA + TA + DA;

}

else if (Salary > 10000 && Salary <= 15000)

{

HRA = (Salary \* 0.25);

TA = (Salary \* 0.15);

DA = (Salary \* 0.25);

GrossSalary = Salary + HRA + TA + DA;

}

else if (Salary > 15000 && Salary <= 20000)

{

HRA = (Salary \* 0.25);

TA = (Salary \* 0.20);

DA = (Salary \* 0.30);

GrossSalary = Salary + HRA + TA + DA;

}

else if (Salary >= 20000)

{

HRA = (Salary \* 0.30);

TA = (Salary \* 0.25);

DA = (Salary \* 0.35);

GrossSalary = Salary + HRA + TA + DA;

}

return GrossSalary;

}

public double CalculateSalary(double i)

{

PF = (0.10 \* GrossSalary);

TDS = (0.18 \* GrossSalary );

NetSalary = GrossSalary - (PF + TDS);

return NetSalary;

}

}

}

// Build a program create .DLL File using Reference add it in console file

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using LitwareLib;

namespace AssignmentCSharp2cns

{

class Program

{

static void Main(string[] args)

{

int EmpId;

string EmpName;

int Sal;

double Result;

double Amount;

Employee Emp = new Employee();

Console.WriteLine("Enter Your Id: ");

EmpId = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("\nEnter Your Name: ");

EmpName = Console.ReadLine();

Console.WriteLine("\nEnter Your Salary: ");

Sal = Convert.ToInt32(Console.ReadLine());

Result = Emp.getGrossSalary(EmpId,EmpName,Sal);

Amount = Emp.CalculateSalary(Result);

Console.WriteLine("\nNet Salary Is {0}",Amount);

Console.ReadKey();

}

}

}

Output

