1) Develop Employee Management System for Litware Organization. Write a Class Library project LitwareLib.

a) 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).

e) 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.

```
using System;
   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 void EmployeeDetails()
      {
         Console.WriteLine("Enter your Employee Number: ");
         EmpNo = Convert.ToInt32(Console.ReadLine());
         Console.WriteLine("Enter your Employee Name: ");
         EmpName = Console.ReadLine();
         Console.WriteLine("Enter your EmployeeSalary: ");
         Salary = Convert.ToDouble(Console.ReadLine());

         try
         {
            if (Salary <= 0)
            {
               throw new Exception();
            }
            if (Salary < 5000)
            {
```

```
            HRA = Salary * 10 / 100; TA = Salary * 5 / 100; DA = Salary * 15 / 100;
        }
        else if (Salary > 5000 && Salary < 10000)
        {
            HRA = Salary * 15 / 100; TA = Salary * 10 / 100; DA = Salary * 20 / 100;
        }
        else if (Salary > 10000 && Salary < 15000)
        {
            HRA = Salary * 20 / 100; TA = Salary * 15 / 100; DA = Salary * 25 / 100;
        }
        else if (Salary > 15000 && Salary < 20000)
        {
            HRA = Salary * 25 / 100; TA = Salary * 20 / 100; DA = Salary * 30 / 100;
        }
        else
        {
            HRA = Salary * 30 / 100; TA = Salary * 25 / 100; DA = Salary * 35 / 100;
        }
        GrossSalary = Salary + HRA + TA + DA;
        CalculateSalary(GrossSalary);
    }
    catch (DivideByZeroException)
    {
        Console.WriteLine("Salary cannot be zero");
    }
    catch (Exception ex)
    {
        Console.WriteLine("Give a proper salary ");
    }
}
public void CalculateSalary(double GrossSalary)
```

```
    {
        PF = GrossSalary * 10 / 100;
        TDS = GrossSalary * 18 / 100;
        NetSalary = GrossSalary - (PF + TDS);
        DisplaySalary(GrossSalary, PF, TDS, NetSalary);
    }
    public void DisplaySalary(double GrossSalary, double PF, double TDS, double NetSalary)
    {
        Console.WriteLine(" salary is " + GrossSalary);
        Console.WriteLine("PF is " + PF);
        Console.WriteLine("TDS is " + TDS);
        Console.WriteLine("NET Salary is " + NetSalary);
    }
    public static void Main(string[] args)
    {
        Employee emp = new Employee();
        emp.EmployeeDetails();
    }
}
```