**Text

Description automatically generatedScreenshot**

**Code (employee class)**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace HomeWork\_9

{

internal class Employee

{

// Data Members

private int employee\_number;

private string first\_name;

private string last\_name;

private double total\_sales;

// Defaul Constructor

public Employee()

{

employee\_number = 000;

first\_name = "Unknown";

last\_name = "Unknown";

total\_sales = 0.00;

}

// Overload Constructor

public Employee(int en, string fn, string ln, double ts)

{

employee\_number = en;

first\_name = fn;

last\_name = ln;

total\_sales = ts;

}

// Mutators & Accessors AKA getters and setters

public int Employee\_Number

{

get { return employee\_number; }

set { employee\_number = value; }

}

public string First\_Name

{

get { return first\_name; }

set { first\_name = value; }

}

public string Last\_Name

{

get { return last\_name; }

set { last\_name = value; }

}

public double Total\_Sales

{

get { return total\_sales; }

set { total\_sales = value; }

}

// Calculations method

public string Salary\_Info()

{

double income, federal\_tax, retirement, SSN, take\_home;

income = Math.Round(total\_sales \* 0.09 , 2);

federal\_tax = Math.Round(income \* 0.18 , 2);

retirement = Math.Round(income \* 0.1 , 2);

SSN = Math.Round(income \* 0.06 , 2);

take\_home = Math.Round(income - (federal\_tax + retirement + SSN) , 2);

Console.WriteLine("Total income: ${0}", income);

Console.WriteLine("Federal tax: ${0}", federal\_tax);

Console.WriteLine("Retirement Contribution: ${0}", retirement);

Console.WriteLine("Social Security tax: ${0}", SSN);

Console.WriteLine("Employee take home: ${0}", take\_home);

return "";

}

// Display method

public void Display()

{

Console.WriteLine("Employee #: {0}", employee\_number);

Console.WriteLine("Employee first name: {0}", first\_name);

Console.WriteLine("Employee last name: {0}", last\_name);

Console.WriteLine("Employee total sales: ${0}", total\_sales);

Console.WriteLine("");

Console.WriteLine("More salary info:");

Console.Write(Salary\_Info());

}

// Destructor

~Employee() { }

}

}

**Code (main/execution class)**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace HomeWork\_9

{

internal class Program

{

static void Main(string[] args)

{

Console.WriteLine("-- Welcome --");

Employee test\_1 = new Employee(007, "Daniele", "Ricciardelli", 100000.00);

Employee test\_2 = new Employee(008, "", "", 00.00);

Console.WriteLine("Test employee #1:");

test\_1.Display();

Console.WriteLine("--------------------------------------------\n");

Console.WriteLine("Edit the test employee #2 to “Mike”, “Johnson”, and $50,000:\n");

Console.Write("Enter the first name: ");

test\_2.First\_Name = Console.ReadLine();

Console.WriteLine("");

Console.Write("Enter the last name: ");

test\_2.Last\_Name = Console.ReadLine();

Console.WriteLine("");

Console.Write("Enter the total sales: ");

test\_2.Total\_Sales = Convert.ToDouble(Console.ReadLine());

Console.WriteLine("");

Console.WriteLine("Test employee #2:");

test\_2.Display();

Console.WriteLine("");

}

}

}

**UML table:**

|  |
| --- |
| Employee |
| -employee\_number : int |
| -first\_name : string |
| -last\_name : string |
| -total\_sales : double |
| +Employee() : void |
| +Employee(int, string, string, double) : void |
| +Employee\_Number() : int |
| +First\_Name() : string |
| +Last\_Name() : string |
| +Total\_Sales() : double |
| +Salary\_Info() : string |
| +Display() : string |
| ~Employee() |