NOTE: I do not have a Windows machine to develop Windows Forms Apps. Alternative is to develop console based application. General logic flow is the same.

A screenshot of a computer

Description automatically generated

using System;

namespace ECE2310\_HW07\_03

{

class Program

{

static void Main(string[] args)

{

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

Console.WriteLine("| Net Pay Calculator |");

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

bool again = false;

do

{

Console.Write("Employee Name? ");

string name = Console.ReadLine();

Console.SetCursorPosition(0, Console.CursorTop - 1);

Console.Write(new string(' ', Console.WindowWidth));

Console.SetCursorPosition(0, Console.CursorTop - 1);

Console.ForegroundColor = ConsoleColor.Green;

Console.WriteLine($"[+] Employee Name: {name}");

Console.ResetColor();

Console.Write("Employee Weekly Sales? $");

double sales = input();

Console.SetCursorPosition(0, Console.CursorTop - 1);

Console.Write(new string(' ', Console.WindowWidth));

Console.SetCursorPosition(0, Console.CursorTop - 1);

Console.ForegroundColor = ConsoleColor.Green;

Console.WriteLine($"[+] Weekly Salary: {sales:C2}");

Console.ResetColor();

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

Console.Write("Determine net? (y/n) ");

if (Console.ReadLine() == "y")

{

Console.SetCursorPosition(0, Console.CursorTop - 1);

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

calculate(sales);

}

else

{

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

Console.WriteLine("Goodbye.");

Environment.Exit(0);

}

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

Console.Write("Again? (y/n) ");

char againInput = Convert.ToChar(Console.ReadLine());

if (againInput == 'y')

{

again = true;

}

else

{

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

Console.WriteLine("Goodbye.");

Environment.Exit(0);

}

} while (again);

}

static double input()

{

double input = 0;

while (!Double.TryParse(Console.ReadLine(), out input) || input < 0)

{

Console.Write("[-] Invalid Input. Try again > ");

}

return input;

}

static void calculate(double sales)

{

double net;

double deducFed, deducRet, deducSoc;

double federalTax = 0.18;

double retirementCont = 0.15;

double socialSec = 0.09;

deducFed = Math.Round(sales \* federalTax, 2);

deducRet = Math.Round(sales \* retirementCont, 2);

deducSoc = Math.Round(sales \* socialSec, 2);

net = sales - deducFed - deducRet - deducSoc;

display(deducFed, deducRet, deducSoc, net);

}

static void display(double deducFed, double deducRet, double deducSoc, double net)

{

Console.SetCursorPosition(0, Console.CursorTop - 1);

Console.Write(new string(' ', Console.WindowWidth));

Console.SetCursorPosition(0, Console.CursorTop - 1);

Console.WriteLine("[+] Deductions: ");

Console.ForegroundColor = ConsoleColor.Red;

Console.WriteLine($"- Federal Tax (18%) > {deducFed:C2}");

Console.WriteLine($"- Retirement Contribution (15%) > {deducRet:C2}");

Console.WriteLine($"- Social Security (9%) > {deducSoc:C2}");

Console.ForegroundColor = ConsoleColor.Green;

Console.WriteLine($"---> Net Pay > {net:C2}");

Console.ResetColor();

}

}

}