Assignment 2

Source code

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using static System.Console;

namespace lab2

{

internal class Program

{

static void Main(string[] args)

{

Write("Enter # of exercise(1,2,4,6,10): ");

int a = Convert.ToInt32(ReadLine());

WriteLine("");

switch (a)

{

case 1:

Exercise1();

break;

case 2:

Exercise2();

break;

case 4:

Exercise4();

break;

case 6:

Exercise6();

break;

case 10:

Exercise10();

break;

default:

WriteLine("Wrong input");

break;

}

ReadKey();

}

public static void Exercise1()

{

double fahrenheit, celsius;

Write("Input temperature in Celsius: ");

celsius = Convert.ToDouble(ReadLine());

fahrenheit = (double)9 / 5 \* celsius + 32;

celsius = (double)5 / 9 \* (fahrenheit - 32);

WriteLine("Temperature in Fahrenheit: " + fahrenheit);

WriteLine("Converted back temperature in Celsius: " + celsius);

}

public static void Exercise2()

{

double mile, feet, kilometer;

Write("Input distance in MILES: ");

mile = Convert.ToDouble(ReadLine());

feet = mile \* 5280;

kilometer = 1.609 \* mile;

WriteLine("Distance in foot: " + feet);

WriteLine("Distance in kilometers: " + kilometer);

}

public static void Exercise4()

{

int Cents, quarters, dimes, nickels, pennies;

Write("Input number of cents: ");

Cents = Convert.ToInt32(ReadLine());

quarters = Cents / 25;

Cents %= 25;

dimes = Cents / 10;

Cents %= 10;

nickels = Cents / 5;

pennies = Cents % 5;

WriteLine("Quarters : " + quarters + "\nDimes : " + dimes

+ "\nNickels : " + nickels + "\nPennies : " + pennies);

}

public static void Exercise6()

{

string employeeName = "Joshua Montain";

double total\_sales/\* = 161432\*/, total\_commission,

federal\_tax, retirement\_program, social\_security, take\_home;

Write("Input total sales: ");

total\_sales = Convert.ToDouble(ReadLine());

total\_commission = total\_sales \* 0.07;

federal\_tax = total\_commission \* 0.18;

retirement\_program = total\_commission \* 0.1;

social\_security = total\_commission \* 0.06;

take\_home = total\_commission - federal\_tax - retirement\_program - social\_security;

WriteLine("Employee Name : " + employeeName + "\nTotal Sales : " + total\_sales

+ "\nTotal Commission : " + total\_commission + "\nFederal Tax : " + federal\_tax +

"\nRetirement Program : " + retirement\_program + "\nSocial Security : " + social\_security +

"\nTake Home Pay : " + take\_home);

}

public static void Exercise10()

{

const double pound\_to\_gram = 4.53;

double cost\_gram;

Write("Input price per 100 grams : ");

cost\_gram = Convert.ToDouble(ReadLine());

WriteLine(" $" + cost\_gram + " per 100 grams" + "\n $"

+ (pound\_to\_gram \* cost\_gram) + " per 1 pound");

}

}

}

Outputs

1)

Text

Description automatically generated

Text

Description automatically generated

2)

Text

Description automatically generated

4)

Text

Description automatically generated

Text

Description automatically generated

6)

Text

Description automatically generated

10)

Text

Description automatically generated

Text

Description automatically generated