using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Problem01

{

class Program

{

static void Main(string[] args)

{ /\* Angelo Goncalves

\* 300-887-613

\* SEC. 005

\* Create a program that calculates and displays the number of rolls of wall-paper needed to cover a room.

The salesclerk will provide the length, width, and ceiling height of the room, in feet.

He or she will also provide the number of square feet a single roll will cover.

(You may assume that the paper will fit the wall exactly and there is no wastage) \*/

string userInput;

double lengthR;

double widthR;

double heightR;

double sqFtSingRoll;

int quantityRoll;

Console.WriteLine("Problem 1.\n");

Console.WriteLine("What is the length of the room? (in Feet)");

userInput = Console.ReadLine();

lengthR = Convert.ToDouble(userInput);

Console.WriteLine("What is the width of the room? (in Feet)");

userInput = Console.ReadLine();

widthR = Convert.ToDouble(userInput);

Console.WriteLine("What is the height of the room? (in Feet)");

userInput = Console.ReadLine();

heightR = Convert.ToDouble(userInput);

Console.WriteLine("How much square feet does a single roll cover?");

userInput = Console.ReadLine();

sqFtSingRoll = Convert.ToDouble(userInput);

quantityRoll = (int)(((2 \* (lengthR \* heightR)) + (2 \*(widthR \* heightR))) / sqFtSingRoll);

Console.WriteLine($"The total amount of rolls you need are {quantityRoll}.\n");

}

}

}

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Problem02

{

class Program

{

static void Main(string[] args)

{ /\* Angelo Goncalves

\* 300-887-613

\* SEC. 005

\* A confectionary store wants a program that will prompt the user for the price of the candy and the amount of money she would like to spend.

\* Then, calculates and display the amount of candies that can be purchased.\*/

string userInput1;

double candyPrice;

double moneyOwn;

int candyAmount;

Console.WriteLine("Problem 2.\n");

Console.WriteLine("How much is the price of the candy you want to buy? (in Dollars)");

userInput1 = Console.ReadLine();

candyPrice = Convert.ToDouble(userInput1);

Console.WriteLine("How much money do you have? (in Dollars)");

userInput1 = Console.ReadLine();

moneyOwn = Convert.ToDouble(userInput1);

candyAmount = (int)(moneyOwn / candyPrice);

Console.WriteLine($"You can buy {candyAmount} piece(s) of candy. \n");

}

}

}

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Problem03

{

class Program

{

static void Main(string[] args)

{ /\* Angelo Goncalves

\* 300-887-613

\* SEC. 005

\* Othello’s Grocery would like a program that will prompt the user for the weight and price of the produce,

\* the price and capacity of plastic bag and then calculates and displays the total cost of the sale.

\* You may assume that all customers will require bags.

\* You may use the following sample inputs: price 11₵per kg, weight 25kg and price of a plastic bag 5₵.\*/

string userInput2;

double weightProd;

double priceProd;

double bagCost;

double bagCap;

double costTotal;

Console.WriteLine("Problem 3.\n");

Console.WriteLine("What's the price of the produce? (in Dollars)");

userInput2 = Console.ReadLine();

priceProd = Convert.ToDouble(userInput2);

Console.WriteLine("What's the weight of the produce? (in Kg)");

userInput2 = Console.ReadLine();

weightProd = Convert.ToDouble(userInput2);

Console.WriteLine("What's the price of the bag? (in Dollars)");

userInput2 = Console.ReadLine();

bagCost = Convert.ToDouble(userInput2);

Console.WriteLine("What's the capacity of the bag? (in Kg)");

userInput2 = Console.ReadLine();

bagCap = Convert.ToDouble(userInput2);

costTotal = (priceProd \* weightProd) + (weightProd / bagCap \* bagCost);

Console.WriteLine($"The total cost will come to {costTotal:c}.\n");

}

}

}

using System;

namespace Problem04

{

class Program

{

static void Main(string[] args)

{ /\* Angelo Goncalves

\* 300-887-613

\* SEC. 005

\* Gerard-The Plumber bills customers by the length of a job as well as the number of joins that is needed.

\* Write a program that prompts the user for the length of the job, the number of joins and the unit price per length and joins.

\* The program calculates and displays the total cost of the job.\*/

string userInput3;

double lengthJob;

double numberJoin;

double lengthP;

double joinP;

double priceTotal;

Console.WriteLine("Problem 4.\n");

Console.WriteLine("What's the length of the job?");

userInput3 = Console.ReadLine();

lengthJob = Convert.ToDouble(userInput3);

Console.WriteLine("What's the number of joins needed for the job?");

userInput3 = Console.ReadLine();

numberJoin = Convert.ToDouble(userInput3);

Console.WriteLine("What's the price of the length per unit?");

userInput3 = Console.ReadLine();

lengthP = Convert.ToDouble(userInput3);

Console.WriteLine("What's the price of the join per unit?");

userInput3 = Console.ReadLine();

joinP = Convert.ToDouble(userInput3);

priceTotal = (lengthJob \* lengthP) + (joinP \* numberJoin);

Console.WriteLine($"The total cost of the job will be {priceTotal:c}.");

}

}

}