**שיעורי בית יסודות DailySell – אופיר הופמן י3**

enum ProductTypes { Sandwhich, Drink };

class Product

{

private ProductTypes Ptype;

private double cost;

private double price;

private string name;

private double weight;

private double caloricValue;

public Product(ProductTypes Ptype, string name, int weight, int cost, double caloricValue)

{

this.Ptype = Ptype;

this.name = name;

this.weight = weight;

this.cost = cost;

this.price = cost + (30 / 100) \* cost;

this.caloricValue = caloricValue;

}

public void SetPrice(double price)

{

this.price = price;

}

public ProductTypes GetPtye()

{

return this.Ptype;

}

public double GetPrice()

{

return this.price;

}

public double GetCost()

{

return this.cost;

}

public double GetCaloricValue()

{

return this.caloricValue \* 300;

}

public void SetSellPrice(double price)

{

this.price = price;

}

public override string ToString()

{

return this.Ptype + ", " + this.name + ", " + this.weight + ", " + this.cost + ", " + this.price;

}

}

**המשך למטה**

class DailySell

{

private DateTime saleDay;

private Product[] sandwiches;

private Product[] drinks;

private int totalSandwiches;

private int totalDrinks;

private double totalCost;

private double income;

public DailySell (DateTime saleDay)

{

this.saleDay = saleDay;

this.totalCost = 0;

}

public void BuyAtMorning(int totalSandwiches, int totalDrinks)

{

this.sandwiches = new Product[totalSandwiches];

this.totalSandwiches = totalSandwiches;

for (int i = 0; i<sandwiches.Length; i++)

{

if (i % 2 == 0)

{

sandwiches[i] = new Product(ProductTypes.Sandwhich, "Tuna", 200, 20, 30);

this.totalCost += sandwiches[i].GetCost();

}

else if (i % 3 == 0)

{

sandwiches[i] = new Product(ProductTypes.Sandwhich, "Egg", 200, 25, 40);

this.totalCost += sandwiches[i].GetCost();

}

else

{

sandwiches[i] = new Product(ProductTypes.Sandwhich, "Salmon", 200, 30, 50);

this.totalCost += sandwiches[i].GetCost();

}

}

this.drinks = new Product[totalDrinks];

this.totalDrinks = totalDrinks;

for (int i = 0; i < drinks.Length; i++)

{

if (i % 2 == 0)

drinks[i] = new Product(ProductTypes.Drink, "Sprite", 300, 7, 10);

else if (i % 3 == 0)

sandwiches[i] = new Product(ProductTypes.Drink, "Coke", 300, 10, 20);

else

sandwiches[i] = new Product(ProductTypes.Drink, "Juice", 300, 8, 20);

}

}

public bool SellSandwich()

{

if (sandwiches[totalSandwiches].GetCaloricValue() > 200)

{

Console.WriteLine("WARNING! THIS PRODUCT CALORIC VALUE IS HIGH!");

}

if (totalSandwiches > 0)

{

income += this.sandwiches[totalSandwiches - 1].GetPrice();

totalSandwiches--;

return true;

}

return false;

}

public bool SellDrink()

{

if (totalDrinks > 0)

{

income += this.drinks[totalDrinks - 1].GetPrice();

totalDrinks--;

return true;

}

return false;

}

public double GetCurrentProfit()

{

return totalCost - income;

}

public double GetCurrentWeight()

{

return (sandwiches.Length \* 200) + (drinks.Length \* 300);

}

public void ShowAll()

{

Console.WriteLine("Sandwhiches:");

for (int i = 0; i < sandwiches.Length; i++)

{

Console.WriteLine(sandwiches[i]);

}

Console.WriteLine("Drinks:");

for (int i = 0; i < drinks.Length; i++)

{

Console.WriteLine(drinks[i]);

}

}

public Product GetSandwich(int i)

{

return sandwiches[i];

}

public Product[] GetDrinks()

{

return this.drinks;

}

public int GetTotalDrinks()

{

return totalDrinks;

}

public override string ToString()

{

string s = saleDay + ": " + "Sandwiches: " + totalSandwiches + ", Drinks: " + totalDrinks + ", Costs: " + totalCost + ", Income: " + this.income;

return s;

}

}

**המשך למטה**

internal class Program

{

public static void AddXNIS(Product[] a, int length, int x)

{

for (int i = 0; i < length; i++)

{

a[i].SetPrice(a[i].GetPrice()+3);

}

}

static void Main(string[] args)

{

DailySell ds = new DailySell(new DateTime(2021, 12, 28));

ds.BuyAtMorning(10, 5, 20, 8);

Console.WriteLine(ds);

Console.WriteLine("Current Profit:" + ds.GetCurrentProfit());

ds.SellDrink();

ds.SellDrink();

ds.SellDrink();

ds.SellDrink();

ds.SellSandwich();

ds.SellSandwich();

Console.WriteLine(ds);

Console.WriteLine("Current Profit:" + ds.GetCurrentProfit());

ds.GetSandwich(0).SetSellPrice(12);

ds.ShowAll();

Console.ReadLine();

AddXNIS(ds.GetDrinks(), ds.GetTotalDrinks(), 3);

ds.SellDrink();

Console.WriteLine(ds);

Console.WriteLine("Current Profit:" + ds.GetCurrentProfit());

ds.ShowAll();

}

}