**Bankas parvaldibas sistema: Ilgvars Lickrastins 110. grupa**

using System;

using System.Collections.Generic;

namespace MyApp

{

class BankAccount

{

public int accNum;

public string owner;

public decimal balance;

private static int nextAccNum = 1;

public BankAccount(string ownerName, decimal startBalance)

{

accNum = nextAccNum++;

owner = ownerName;

balance = startBalance;

}

public void deposit(decimal amount)

{

if (amount <= 0)

{

Console.WriteLine("Summai jabut pozitīvai.");

}

else

{

balance += amount;

}

}

public void withdraw(decimal amount)

{

if (amount > balance)

{

Console.WriteLine("Nepietiek lidzeklu.");

}

else

{

balance -= amount;

}

}

public void showInfo()

{

Console.WriteLine($"Konts #{accNum}, ipasnieks: {owner}, atlikums: {balance}");

}

~BankAccount()

{

Console.WriteLine($"Konts #{accNum} tika izdzests.");

}

}

class Program

{

static List<BankAccount> accounts = new List<BankAccount>();

static void Main()

{

while (true)

{

Console.WriteLine("\nIzvelies darbibu:");

Console.WriteLine("1. Jauns konts");

Console.WriteLine("2. Noguldit");

Console.WriteLine("3. Iznemt");

Console.WriteLine("4. Paradi info");

Console.WriteLine("5. Dzest kontu");

Console.WriteLine("6. Iziet");

int choice;

if (!int.TryParse(Console.ReadLine(), out choice))

{

Console.WriteLine("Nederiga izvele.");

continue;

}

try

{

if (choice == 1) CreateAccount();

else if (choice == 2) DepositToAccount();

else if (choice == 3) WithdrawFromAccount();

else if (choice == 4) ShowAccountInfo();

else if (choice == 5) DeleteAccount();

else if (choice == 6) return;

else Console.WriteLine("Nederiga izvele.");

}

catch (Exception ex)

{

Console.WriteLine("Kļuda: " + ex.Message);

}

}

}

static BankAccount FindAccount()

{

Console.Write("Ievadi konta numuru: ");

int nr = int.Parse(Console.ReadLine());

var acc = accounts.Find(a => a.accNum == nr);

if (acc == null)

throw new Exception("Konts nav atrasts.");

return acc;

}

static void CreateAccount()

{

Console.Write("Ievadi ipasnieka vardu: ");

string name = Console.ReadLine();

Console.Write("Ievadi sakuma atlikumu: ");

decimal start = decimal.Parse(Console.ReadLine());

var acc = new BankAccount(name, start);

accounts.Add(acc);

Console.WriteLine($"Konts veiksmigi izveidots. Konta numurs ir {acc.accNum}");

}

static void DepositToAccount()

{

var acc = FindAccount();

Console.Write("Ievadi summu: ");

decimal amount = decimal.Parse(Console.ReadLine());

acc.deposit(amount);

Console.WriteLine("Iemaksa veiksmiga.");

}

static void WithdrawFromAccount()

{

var acc = FindAccount();

Console.Write("Ievadi summu: ");

decimal amount = decimal.Parse(Console.ReadLine());

acc.withdraw(amount);

Console.WriteLine("Izmaksa veiksmiga.");

}

static void ShowAccountInfo()

{

var acc = FindAccount();

acc.showInfo();

}

static void DeleteAccount()

{

var acc = FindAccount();

accounts.Remove(acc);

Console.WriteLine("Konts izdzests no saraksta.");

}

}

}