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import java.util.*;

class BankAccount {
    private static int accountCounter = 1000; // Unique account number generator
    private int accountNumber;
    private String accountHolder;
    private double balance;
    private List<String> transactionHistory;

    public BankAccount(String accountHolder) {
        this.accountHolder = accountHolder;
        this.accountNumber = accountCounter++;
        this.balance = 0.0;
        this.transactionHistory = new ArrayList<>();
        transactionHistory.add("Account created with balance: $0.0");
    }

    public int getAccountNumber() {
        return accountNumber;
    }

    public String getAccountHolder() {
        return accountHolder;
    }

    public double getBalance() {
        return balance;
    }

    public void deposit(double amount) {
        if (amount > 0) {
            balance += amount;
            transactionHistory.add("Deposited: $" + amount);
            System.out.println("Deposit successful! New balance: $" + balance);
        } else {
            System.out.println("Invalid deposit amount.");
        }
    }

    public void withdraw(double amount) {
        if (amount > 0 && amount <= balance) {
            balance -= amount;
            transactionHistory.add("Withdrawn: $" + amount);
            System.out.println("Withdrawal successful! New balance: $" + balance);
        } else {
            System.out.println("Invalid withdrawal amount or insufficient
balance.");
        }
    }
}

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        public void displayAccountDetails() {
            System.out.println("\nAccount Number: " + accountNumber);
            System.out.println("Account Holder: " + accountHolder);
            System.out.println("Current Balance: $" + balance);
            System.out.println("Transaction History:");
            for (String transaction : transactionHistory) {
                System.out.println("- " + transaction);
            }
        }
    }

    public class SimpleBankingSystem {
        public static void main(String[] args) {
            Scanner scanner = new Scanner(System.in);
            List<BankAccount> accounts = new ArrayList<>();

            while (true) {
                System.out.println("\n*** Simple Banking System ***");
                System.out.println("1. Create Account");
                System.out.println("2. Deposit Money");
                System.out.println("3. Withdraw Money");
                System.out.println("4. View Account Details");
                System.out.println("5. Exit");
                System.out.print("Choose an option: ");

                int choice = scanner.nextInt();
                scanner.nextLine(); // Consume newline

                switch (choice) {
                    case 1:
                        System.out.print("Enter Account Holder Name: ");
                        String name = scanner.nextLine();
                        BankAccount newAccount = new BankAccount(name);
                        accounts.add(newAccount);
                        System.out.println("Account created successfully! Your Account Number is: " + newAccount.getAccountNumber());
                        break;

                    case 2:
                        System.out.print("Enter Account Number: ");
                        int accNumDep = scanner.nextInt();
                        BankAccount accountDep = findAccount(accounts, accNumDep);
                        if (accountDep != null) {
                            System.out.print("Enter deposit amount: $");
                            double depositAmount = scanner.nextDouble();
                            accountDep.deposit(depositAmount);
                        } else {
                            System.out.println("Account not found.");
                        }
                        break;
                }
            }
        }
    }

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        case 3:
            System.out.print("Enter Account Number: ");
            int accNumWith = scanner.nextInt();
            BankAccount accountWith = findAccount(accounts, accNumWith);
            if (accountWith != null) {
                System.out.print("Enter withdrawal amount: $");
                double withdrawAmount = scanner.nextDouble();
                accountWith.withdraw(withdrawAmount);
            } else {
                System.out.println("Account not found.");
            }
            break;

        case 4:
            System.out.print("Enter Account Number: ");
            int accNumView = scanner.nextInt();
            BankAccount accountView = findAccount(accounts, accNumView);
            if (accountView != null) {
                accountView.displayAccountDetails();
            } else {
                System.out.println("Account not found.");
            }
            break;

        case 5:
            System.out.println("Exiting... Thank you for using the banking
system.");

            scanner.close();
            System.exit(0);

        default:
            System.out.println("Invalid choice! Please try again.");
    }
}

private static BankAccount findAccount(List<BankAccount> accounts, int
accountNumber) {
    for (BankAccount acc : accounts) {
        if (acc.getAccountNumber() == accountNumber) {
            return acc;
        }
    }
    return null;
}
}

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