Name: Abdul Wahab Aslam

Enrollment: 02-131222-132

**Code:**

**package com.mycompany.labevaluation;**

**import java.util.Scanner;**

**class InvalidAmountException extends Exception {**

**public InvalidAmountException(String message) {**

**super(message);**

**}**

**}**

**class InsufficientBalanceException extends Exception {**

**public InsufficientBalanceException(String message) {**

**super(message);**

**}**

**}**

**// Bank class**

**class Bank {**

**private double balance;**

**public void createAccount() {**

**// Implement account creation logic here**

**System.out.println("Account created successfully!");**

**}**

**public void deposit(double amount) throws InvalidAmountException {**

**if (amount > 100000) {**

**throw new InvalidAmountException("You can't deposit this big amount.");**

**} else {**

**balance += amount;**

**System.out.println("Deposit successful. Current balance: " + balance);**

**}**

**}**

**public void withdraw(double amount) throws InvalidAmountException, InsufficientBalanceException {**

**if (amount > 100000) {**

**throw new InvalidAmountException("You can't withdraw this big amount.");**

**} else if (amount > balance) {**

**throw new InsufficientBalanceException("Insufficient balance. Unable to withdraw.");**

**} else {**

**balance -= amount;**

**System.out.println("Withdrawal successful. Current balance: " + balance);**

**}**

**}**

**}**

**public class Labevaluation {**

**public static void main(String[] args) {**

**Bank bank = new Bank();**

**Scanner scanner = new Scanner(System.in);**

**int choice;**

**do {**

**System.out.println("\nBanking System Menu:");**

**System.out.println("1. Create Account");**

**System.out.println("2. Deposit");**

**System.out.println("3. Withdraw");**

**System.out.println("4. Exit");**

**System.out.print("Enter your choice: ");**

**choice = scanner.nextInt();**

**switch (choice) {**

**case 1:**

**bank.createAccount();**

**break;**

**case 2:**

**System.out.print("Enter the amount to deposit: ");**

**double depositAmount = scanner.nextDouble();**

**try {**

**bank.deposit(depositAmount);**

**} catch (InvalidAmountException e) {**

**System.out.println("Invalid amount: " + e.getMessage());**

**}**

**break;**

**case 3:**

**System.out.print("Enter the amount to withdraw: ");**

**double withdrawalAmount = scanner.nextDouble();**

**try {**

**bank.withdraw(withdrawalAmount);**

**} catch (InvalidAmountException | InsufficientBalanceException e) {**

**System.out.println("Transaction error: " + e.getMessage());**

**}**

**break;**

**case 4:**

**System.out.println("Exiting the program.");**

**break;**

**default:**

**System.out.println("Invalid choice. Please try again.");**

**}**

**} while (choice != 4);**

**scanner.close();**

**}**

**}**

**Output:**

