package bank\_management\_system;

public class CheckingAccount extends Account {

private static final double OVERDRAFT\_LIMIT = 500.0; // Allowed overdraft

public CheckingAccount(String accountHolderName, double initialBalance) {

super(accountHolderName, initialBalance);

}

public void withdraw(double amount) {

if (amount <= 0) {

System.out.println("Withdrawal amount must be positive.");

return;

}

if (getBalance() - amount < -OVERDRAFT\_LIMIT) {

System.out.println("Withdrawal denied: Exceeds overdraft limit of $" + OVERDRAFT\_LIMIT + ".");

} else {

updateBalance(-amount); // Use protected method from superclass

addTransaction("Withdrawal", -amount); // Amount is negative for withdrawals

System.out.println("Withdrew $" + String.format("%.2f", amount) + " successfully. New balance: $" + String.format("%.2f", getBalance()));

if (getBalance() < 0) {

System.out.println("Warning: You are now in overdraft by $" + String.format("%.2f", Math.abs(getBalance())));

}

}

}

}