// BankAccount.java

// Parent class BankAccount

public class BankAccount {

private String accountNumber;

private double balance;

public BankAccount(String accountNumber, double balance) {

this.accountNumber = accountNumber;

this.balance = balance;

}

public void deposit(double amount) {

balance += amount;

}

public void withdraw(double amount) {

if (balance >= amount) {

balance -= amount;

} else {

System.out.println("Insufficient balance");

}

}

public double getBalance() {

return balance;

}

}

// SavingsAccount.java

// Child class SavingsAccount

public class SavingsAccount extends BankAccount {

public SavingsAccount(String accountNumber, double balance) {

super(accountNumber, balance);

}

@Override

public void withdraw(double amount) {

if (getBalance() - amount < 100) {

System.out.println("Minimum balance of $100 required!");

} else {

super.withdraw(amount);

}

}

}

// Main.java

// Main class

public class Main {

public static void main(String[] args) {

System.out.println("Create a Bank Account object (A/c No. BA1234) with initial balance of $500:");

//Create a BankAccount object (A/c No. "BA1234") with initial balance of $500

BankAccount BA1234 = new BankAccount("BA1234", 500);

// Deposit $1000 into account BA1234

System.out.println("Deposit $1000 into account BA1234:");

BA1234.deposit(1000);

System.out.println("New balance after depositing $1000: $" + BA1234.getBalance());

// Withdraw $600 from account BA1234

System.out.println("Withdraw $600 from account BA1234:");

BA1234.withdraw(600);

System.out.println("New balance after withdrawing $600: $" + BA1234.getBalance());

// Create a SavingsAccount object (A/c No. "SA1234") with initial balance of $450

System.out.println("\nCreate a SavingsAccount object (A/c No. SA1234) with initial balance of $450:");

SavingsAccount SA1234 = new SavingsAccount("SA1234",450);

// Withdraw $300 from SA1234

SA1234.withdraw(300);

System.out.println("Balance after trying to withdraw $300: $" + SA1234.getBalance());

// Create a SavingsAccount object (A/c No. "SA1000") with initial balance of $300

System.out.println("\nCreate a SavingsAccount object (A/c No. SA1000) with initial balance of $300:");

SavingsAccount SA1000 = new SavingsAccount("SA1000",300);

// Withdraw $250 from SA1000 (balance falls below $100)

System.out.println("Try to withdraw $250 from SA1000!");

SA1000.withdraw(250);

System.out.println("Balance after trying to withdraw $250: $" + SA1000.getBalance());

}

}