Problem 1 Square Root Calculation

Problem 2 ATM Withdrawal System

```
import java.util.Scanner;
  3 class ATM {
        private static final int PIN = 1234;
         private double balance;
         public ATM(double initialBalance) {
            this.balance = initialBalance;
         public void withdraw(double amount, int enteredPin) throws Exception {
             if (enteredPin != PIN) {
   throw new Exception("Invalid PIN. Access Denied.");
             if (amount > balance) {
                 throw new Exception("Insufficient balance.");
             balance -= amount;
             System.out.println("Withdrawal successful. Amount withdrawn: " + amount);
         public void displayBalance() {
            System.out.println("Remaining balance: " + balance);
 25 }
 27 public class ATMSystem {
        public static void main(String[] args) {
v / in 4 %
                                                                     input
```

Enter PIN: 9789
Enter amount to withdraw: 5000
Error: Invalid PIN. Access Denied.
Remaining balance: 5000.0

Problem 3 University Enrollment System

```
UniversityEnrollme...
                            course.enrollStudent(student);
                        } catch (CourseFullException | PrerequisiteNotMetException e) {
                                 m.out.println(e.getMessage());
                              n.out.println("Invalid student or course name.");
input
Enter the number of students: 2
Enter student name: Ananya
Enter completed courses (comma-separated, or leave blank): 1
Enter student name: Anshika
Enter completed courses (comma-separated, or leave blank): 1
Enter the number of courses: 1
Enter course code: CE203
Enter course capacity: 2
Enter prerequisites (comma-separated, or leave blank): Java
Enter the number of enrollments: 2
Enter student name: Ananya
Enter course code to enroll in: CE203
Enrollment failed: Prerequisites not met for CE203
Enter student name: Anshu
Enter course code to enroll in: 1
Invalid student or course name.
 ..Program finished with exit code 0
Press ENTER to exit console.
```