Problem 3: University Enrollment System (Hard Level)

Description:

Create a **university enrollment system** with exception handling:

- Allow students to enroll in courses.
- Throw **CourseFullException** if the course is full.
- Throw **PrerequisiteNotMetException** if prerequisites are not completed.

Code:

```
import java.util.HashMap;
import java.util.Map;
import java.util.Scanner;
class CourseFullException extends Exception {
   public CourseFullException(String message) {
       super(message);
class PrerequisiteNotMetException extends Exception {
   public PrerequisiteNotMetException(String message) {
class UniversityEnrollment {
Exception {
           throw new CourseFullException ("Error: CourseFullException - The
        if (prerequisites.containsKey(course) &&
!prerequisites.get(course)) {
           throw new PrerequisiteNotMetException("Error:
PrerequisiteNotMetException - Complete " + prerequisite + " before
        System.out.println("Enrollment Successful in " + course);
    public static void main(String[] args) {
            System.out.print("Enroll in Course: ");
            String course = scanner.nextLine();
            System.out.print("Prerequisite: ");
            String prerequisite = scanner.nextLine();
            enrollment.enrollStudent(course, prerequisite);
```

```
} catch (Exception e) {
         System.out.println(e.getMessage());
     }
}
```

Output:

```
"C:\Program Files\Java\jdk-22\bin\ja
Enroll in Course: Java
Prerequisite: Core Java
Enrollment Successful in Java
Process finished with exit code 0
```