1. Create a login program in dart with the following features:
   - Inputs a username from console.
   - Checks whether the user exists. (You can use a predefined map with usernames and password).
   - Simulate a login check delay(< 10s)
   - Print an appropriate result based on the login check.

2. Create a courses module in dart with two classes BranchElective and OpenElective with common fields being courseName and courseCode. BranchElective has two extra fields which are branch and year. The following features are to be implemented
   -  An admin user can add courses(BranchElective, OpenElective) to the module
   - A student can view branch electives based on his/her branch and year
   - Any student can view open electives

   Examples:

   ```
   Enter type of user 1.Admin 2.Student
   1
   Enter course type 1.Open elective 2.Branch elective
   1
   Enter course name and code
   course1 co123
   ```

   ```
   Enter type of user 1.Admin 2.Student
   2
   Enter branch and year
   cs 2
   <List of open electives>
   <List of branch electives>
   ```