**Beginner Projects**

1. **Simple Calculator**
   * Build a basic calculator that can perform addition, subtraction, multiplication, and division.
   * Add a simple GUI using Java Swing or JavaFX.
2. **To-Do List Application**
   * Create a to-do list application where users can add, edit, and delete tasks.
   * Implement features like task prioritization and deadlines.
3. **Guess the Number Game**
   * Develop a game where the computer randomly selects a number within a range, and the user has to guess it.
   * Provide feedback on whether the guessed number is too high or too low.
4. **Basic Banking System**
   * Implement a simple banking system that allows users to create accounts, deposit, withdraw, and check balances.
   * Use basic file handling to save user information.
5. **Library Management System**
   * Build a system to manage books in a library.
   * Implement features for adding, deleting, and searching for books.

**Intermediate Projects**

1. **Student Management System**
   * Create a system to manage student records, including adding, deleting, and updating student information.
   * Implement search functionality to find students by various criteria.
2. **Chat Application**
   * Develop a simple chat application using sockets.
   * Implement both server-side and client-side functionality to allow multiple users to communicate.
3. **Inventory Management System**
   * Build a system to manage inventory for a store.
   * Include features for adding, updating, and deleting items, as well as generating reports.
4. **E-commerce Website**
   * Create a basic e-commerce website with user registration, product listings, a shopping cart, and checkout functionality.
   * Use Java Servlets and JSP for the web application.
5. **Weather App**
   * Develop an application that fetches and displays weather information for different cities.
   * Use a public API to get the weather data.
6. **Quiz Application**
   * Create a quiz application with multiple categories and a variety of questions.
   * Implement a scoring system and the ability to review answers.
7. **Expense Tracker**
   * Build an application to track personal expenses.
   * Include features for categorizing expenses, setting budgets, and generating reports.
8. **File Encryption/Decryption**
   * Develop a tool to encrypt and decrypt files.
   * Implement different encryption algorithms and a user-friendly interface.
9. **Recipe Management System**
   * Create a system to manage recipes, including adding, deleting, and searching for recipes.
   * Allow users to rate and comment on recipes.
10. **Employee Management System**
    * Build a system to manage employee records, including adding, updating, and deleting employee information.
    * Implement features like attendance tracking and performance reviews.