

```
1  import java.util.ArrayList;
2  import java.util.Scanner;
3
4  // Class representing a Subject
5  class Subject {
6      String name;
7      int totalChapters;
8      int completedChapters;
9
10     Subject(String name, int totalChapters) {
11         this.name = name;
12         this.totalChapters = totalChapters;
13         this.completedChapters = 0;
14     }
15
16     void markProgress(int chapters) {
17         if (chapters + completedChapters <= totalChapters) {
18             completedChapters += chapters;
19             System.out.println(chapters + " chapters marked as completed in " + name);
20         } else {
21             System.out.println("You cannot exceed the total chapters.");
22         }
23     }
24
25     void displayProgress() {
26         System.out.println("Subject: " + name);
27         System.out.println("Completed: " + completedChapters + "/" + totalChapters);
28     }
29 }
30
```

```
62 }  
63  
64 // Main Class
```

```
65 public class StudentStudySystem {
```

```
    Run | Debug
```

```
66     public static void main(String[] args) {
```

```
67         Scanner scanner = new Scanner(System.in);
```

```
68         System.out.println("Welcome to the Student Study System!");
```

```
69  
70         System.out.print("Enter your name: ");
```

```
71         String studentName = scanner.nextLine();
```

```
72         Student student = new Student(studentName);
```

```
73  
74         while (true) {
```

```
75             System.out.println("\nMenu:");
```

```
76             System.out.println("1. Add Subject");
```

```
77             System.out.println("2. Mark Subject Progress");
```

```
78             System.out.println("3. Display Study Summary");
```

```
79             System.out.println("4. Exit");
```

```
80             System.out.print("Choose an option: ");
```

```
81             int choice = scanner.nextInt();
```

```
82             scanner.nextLine(); // Consume the newline character
```

```
83  
84             switch (choice) {
```

```
85                 case 1:
```

```
86                     System.out.print("Enter subject name: ");
```

```
87                     String subjectName = scanner.nextLine();
```

```
88                     System.out.print("Enter total chapters: ");
```

```
89                     int totalChapters = scanner.nextInt();
```

```
90                     student.addSubject(subjectName, totalChapters);
```

```
91                     break;
```

```
65 public class StudentStudySystem {
66     public static void main(String[] args) {
92
93         case 2:
94             System.out.print("Enter subject name: ");
95             String progressSubject = scanner.nextLine();
96             System.out.print("Enter number of chapters completed: ");
97             int chapters = scanner.nextInt();
98             student.markSubjectProgress(progressSubject, chapters);
99             break;
100
101         case 3:
102             student.displaySummary();
103             break;
104
105         case 4:
106             System.out.println("Exiting... Thank you!");
107             scanner.close();
108             System.exit(0);
109             break;
110
111         default:
112             System.out.println("Invalid choice. Please try again.");
113     }
114 }
115 }
116 }
```