Assignment questions Mastering java 8

Problem Statement 3:

Create a Java program that accepts a numerical input representing a day of the week (1 for Monday, 2 for Tuesday, etc.). Utilize a switch expression (Java 12) to determine the corresponding day and display its name. Handle a minimum of five cases to cover all weekdays and include a default case for invalid input. The program should provide user-friendly messages indicating the day of the week based on the input, and the code should be well-documented to explain its purpose and functionality.

Example:

 int dayOfWeek = //enter day number;

String dayName = switch (dayOfWeek) {

       case 1 -> "";

       case 2 -> "";

       //Enter other cases

       default -> "";

};

```java
import java.util.Map;
import java.util.Scanner;
import java.util.TreeMap;

public class WeekDays {
    public static void main(String[] args) {
        Map<Integer,String> weekDays = new TreeMap<>();
        weekDays.put(1, "Monday");
        weekDays.put(2, "Tuesday");
        weekDays.put(3, "Wednesday");
        weekDays.put(4, "Thursday");
        weekDays.put(5, "Friday");
        weekDays.put(6, "Saturday");
        weekDays.put(7, "Sunday");

        Scanner scan = new Scanner(System.in);

        boolean exit=false;
        while(!exit) {
            System.out.println("enter the day you need, or '0' for exit");
            int input=scan.nextInt();
            switch(input) {
            case 1,2,3,4,5,6,7:
                System.out.println("today is "+weekDays.get(input));
            break;
            case 0:
                System.out.println("exit....!");
                exit=!exit;
                break;
            default:
                System.out.println("invalid input");
                break;
            }
        }
    }
}
```