

SOURCE CODE

```
import java.util.Scanner;
import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.concurrent.TimeUnit;

public class Main {

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

        SimpleDateFormat sdf = new SimpleDateFormat("HH:mm");

        try {

            // Get the number of tasks to schedule

            System.out.print("Enter the number of tasks to schedule: ");

            int numTasks = Integer.parseInt(scanner.nextLine());

            // Get the start time for scheduling

            System.out.print("Enter the start time (HH:MM, 24-hour format): ");

            String startTimeInput = scanner.nextLine();

            Date startTime = sdf.parse(startTimeInput);

            System.out.println("\nTask Schedule:");

            // Schedule tasks with a 30-minute gap

            for (int i = 1; i <= numTasks; i++) {

                long taskTimeInMillis = startTime.getTime() + (i - 1) * 30 * 60 * 1000L; // 30
minutes in milliseconds

                Date taskTime = new Date(taskTimeInMillis);

                System.out.println("Task " + i + ": Scheduled at " + sdf.format(taskTime));

            }

        } catch (Exception e) {

            System.out.println("Invalid input. Please ensure the time is in HH:MM format and the
number of tasks is an integer.");

        }

    }

}
```