Explanation:

1. **Inputs**:
    - hourlyRate: The hourly wage.
    - date: The date to check if it is a Sunday.

2. **Logic**:
    - date.DayOfWeek is used to determine if the day is a Sunday.
    - If it is, a surcharge of 50% is calculated:

csharp

Code kopieren

```csharp
decimal sundaySurcharge = hourlyRate * 0.5m;

decimal total = hourlyRate + sundaySurcharge;
```

3. **Outputs**:
    - If it's Sunday, the response includes:
        - The hourly rate.
        - The surcharge.
        - The total hourly pay.
        - The date.
    - If not, a message indicates the date is not a Sunday.

Holiday Surcharge:

1. **Logic**:
    - Checks if the date is a public holiday using the **Nager.Date** library:

csharp

Code kopieren

```csharp
bool isPublicHoliday = DateSystem.IsPublicHoliday(date, CountryCode.DE);
```

    - Calculates the holiday surcharge at 100%.

2. **Outputs**:
    - Includes the hourly rate, holiday surcharge, total pay, and date if it is a public holiday.
    - Returns a message if it is not a public holiday.