

Explanation:

Logic:

1. Standard Monthly Working Hours:

- We define the **standard monthly working hours** (e.g., 160 hours per month):

csharp

Code kopieren

```
private const int StandardMonthlyWorkHours = 160;
```

2. Calculate Worked Hours:

- The workedHoursInMonth is provided as input, representing the total hours worked by the employee in the current month.

3. Check for Overtime:

- If the **worked hours** exceed the standard monthly hours, overtime is calculated. A **25% surcharge** is applied to the hourly rate for overtime hours:

csharp

Code kopieren

```
var overtimeHours = workedHoursInMonth - StandardMonthlyWorkHours;
```

```
decimal overtimeSurcharge = hourlyRate * 0.25m;
```

```
decimal totalOvertimePay = overtimeHours * (hourlyRate + overtimeSurcharge);
```

4. Regular Pay:

- If the worked hours are within the standard range, only regular pay is calculated for the **standard monthly hours**:

csharp

Code kopieren

```
decimal regularPay = StandardMonthlyWorkHours * hourlyRate;
```

5. Total Pay:

- The total pay is calculated as the sum of regular pay and overtime pay (if applicable):

csharp

Code kopieren

```
decimal totalPay = regularPay + totalOvertimePay;
```

6. **Output:**

- If the employee worked overtime, the response includes:
 - Regular pay, overtime pay, overtime hours, surcharge, and total pay.
- If there is no overtime, the response includes only the regular pay.