COM2044 LAB 4 Q2

You are designing an **Employee Management System**. In this system, there will be different types of employees: **Full-time Employees** and **Part-time Employees**. The system should calculate the salaries of employees, with each type of employee having a different salary calculation method. However, the same calculateSalary() method should be used for both employee types.

Requirements:

1. **Full-time Employees**: Full-time employees receive a monthly salary and an additional overtime payment. The overtime payment is added to the salary based on the number of overtime hours worked.

2. **Part-time Employees**: Part-time employees are paid by the hour. Their total salary is based on the number of hours they worked.

While designing the system, overload the calculateSalary() method to implement different salary calculation methods for each employee type.

Steps:

1. Create the classes FullTimeEmployee and PartTimeEmployee. These classes should have different salary calculation methods:

   o **Full-time Employee**: Salary + overtime payment.

   o **Part-time Employee**: Hourly rate * hours worked.

2. Overload the calculateSalary() method for both classes:

   o The **Full-time Employee** method will calculate salary and overtime payment.

   o The **Part-time Employee** method will calculate salary based on hourly rate and working hours.

3. In the employee classes, call the calculateSalary() method to calculate the salaries.

4. Ask the user to input the necessary values (monthly salary, overtime hours, hourly rate, and working hours).

```
Full-Time Employee:
Enter your monthly salary: 5000
Enter overtime hours: 20
Enter overtime rate: 50
Full-Time Employee Salary: 6000.0 TL

Part-Time Employee:
Enter your hourly rate: 30
Enter hours worked: 120
Part-Time Employee Salary: 3600.0 TL
```