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# jermaine Furze
# 2025-06-29
# P3HW2 - Salary Calculator
# This program asks for an employee's name, hours worked, and pay rate,
# then calculates regular pay, overtime pay, and gross pay based on input.

'''
Pseudocode:
1. Ask user to enter employee's name
2. Ask user to enter number of hours worked
3. Ask user to enter employee's hourly pay rate
4. Check if hours worked are more than 40
   a. If yes, calculate overtime hours and overtime pay (1.5 × rate × overtime hours)
   b. Calculate regular pay (40 × rate)
5. If no, calculate regular pay (hours × rate), overtime pay is 0
6. Calculate gross pay = regular pay + overtime pay
7. Display:
   - Employee name
   - Pay rate
   - Hours worked
   - Overtime hours
   - Overtime pay
   - Regular pay
   - Gross pay
'''

# Input section
employee_name = input("Enter employee's name: ")
hours_worked = float(input("Enter number of hours worked: "))
pay_rate = float(input("Enter employee's pay rate: "))

# Overtime calculation
if hours_worked > 40:
    overtime_hours = hours_worked - 40
    regular_hours = 40
else:
    overtime_hours = 0
    regular_hours = hours_worked

# Pay calculations
overtime_pay = overtime_hours * (pay_rate * 1.5)
regular_pay = regular_hours * pay_rate
gross_pay = regular_pay + overtime_pay

# Output section
print("\n-----")
print(f"Employee Name:      {employee_name}")
print(f"Hours Worked:        {hours_worked}")
print(f"Pay Rate:            ${pay_rate:.2f}")
print(f"Overtime Hours:      {overtime_hours}")
print(f"Overtime Pay:        ${overtime_pay:.2f}")
print(f"Regular Pay:         ${regular_pay:.2f}")
print(f"Gross Pay:           ${gross_pay:.2f}")
print("-----")

```