Title: Weekly Paycheck
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Description: Compute a weekly paycheck and overtime based on how many hours were worked and the hourly wage.

Initial Algorithm:

1. Get the number of hours worked
2. Get the hourly wage
3. Determine whether hours worked exceeds 40
4. Compute the base salary
5. Compute the overtime pay
6. Compute the total salary
7. Display the base salary, overtime pay, and total salary

Data Requirements:

Input:

- Number of hours worked
- Hourly wage

Output:

- Base salary
- Overtime pay
- Total Salary

Additional Data: None

Formulas:

- Base salary = hours worked * hourly wage
- Base salary = 40 * hourly wage
- Overtime pay = 0
- Overtime pay = (hours worked – 40) * hourly wage * 1.5
- Total salary = base salary + overtime pay

Refined Algorithm:

1. Get the number of hours worked
2. Get the hourly wage
3. IF hours worked > 40 THEN
   a. Compute base salary

- Base salary = 40 * hourly wage
  b. Compute overtime pay
    - Overtime pay = (hours worked − 40) * hourly wage * 1.5
4. ELSE
    a. Compute base salary
      - Base salary = hours worked* hourly wage
    b. Compute overtime pay
      - Overtime pay = 0
5. END IF
6. Compute the total salary
    - Total salary = base salary + overtime pay
7. Display the base salary
8. Display the overtime pay
9. Display the total salary