**1. Scenario:** A system checks if a user is eligible to vote based on their age.  
 **Logic:**

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1. Ask the user to enter their age.
2. Check if the age is 18 or older.
3. If yes, print "Eligible to vote."
4. Otherwise, print "Not eligible to vote."

**2. Scenario:** A program processes a list of numbers and needs to find the largest value.  
 **Logic:**

1. Read the list of numbers.
2. Assume the first number is the largest.
3. Iterate through the list, comparing each number with the current largest value.
4. If a larger number is found, update the largest value.
5. Return the largest number.

**3. Scenario:** A company provides employees with a 10% bonus if their salary exceeds $50,000.  
 **Logic:**

1. Read the employee's salary.
2. If the salary is greater than $50,000, calculate a 10% bonus.
3. Otherwise, set the bonus to zero.
4. Return the calculated bonus amount.

**4. Scenario:** A program evaluates a number to determine if it is even or odd.  
 **Logic:**

1. Read the input number.
2. Check if the number is divisible by 2.
3. If yes, print "Even."
4. Otherwise, print "Odd."
5. **Scenario:** A text-processing tool reverses a given word or sentence for formatting purposes.  
    **Logic:**
6. Read the input word or sentence.

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1. Convert the input into a list of characters.
2. Reverse the order of characters.
3. Join the reversed characters into a string.
4. Return the reversed word or sentence.

**6. Scenario:** A grading system determines whether a student has passed or failed based on their score.  
 **Logic:**

1. Read the student's marks.
2. If the marks are 40 or above, print "Pass."
3. Otherwise, print "Fail."

**7. Scenario:** A retail store offers a 20% discount if a customer’s total order exceeds $100.  
 **Logic:**

1. Read the total order amount.
2. If the amount is more than $100, calculate a 20% discount.
3. Subtract the discount from the total amount.
4. Return the final amount to be paid.

**8. Scenario:** A banking system processes withdrawal requests and ensures the user has enough balance.  
 **Logic:**

1. Read the account balance and withdrawal amount.
2. If the withdrawal amount is less than or equal to the balance, process the withdrawal.
3. Subtract the withdrawal amount from the balance and return the updated balance.
4. If the withdrawal amount exceeds the balance, print "Insufficient funds."

**9. Scenario:** A calendar system verifies whether a given year is a leap year based on standard leap year rules.  
 **Logic:**

1. Read the input year.
2. If the year is divisible by 400, it is a leap year.

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1. If the year is divisible by 100 but not by 400, it is not a leap year.
2. If the year is divisible by 4 but not by 100, it is a leap year.
3. Otherwise, it is not a leap year.

**10. Scenario:** A program filters out only even numbers from a given list.  
 **Logic:**

1. Read the list of numbers.
2. Create an empty list to store even numbers.
3. Iterate through the list and check if each number is divisible by 2.
4. If divisible, add the number to the new list.
5. Return the list of even numbers.

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