Python logic assignment

- **1. Scenario:** A system checks if a user is eligible to vote based on their age.
 - Ask user enter the age
 - Eligible 18 or older check
 - if yes print "Eligible to vote"
 - otherwise print "not eligible to vote"
- **2.Scenario:** A program processes a list of numbers and needs to find the largest value.
 - Read the list of numbers.
 - then fine the largest number in the list.
 - use Python's built-in max() function.
 - then print largest
- **3.Scenario:** A company provides employees with a 10% bonus if their salary exceeds \$50,000.
 - If the condition is true (salary is above \$50,000), a bonus of 10% of the salary is calculated.
 - If the condition is false (salary is not above \$50,000), then the total_salary remains the same as the base salary.
- **4.Scenario:** A program evaluates a number to determine if it is even or odd.
 - Read the input Enter the value then
 - if condition use (num%2==0)
 - print even number
 - else print odd nmber
- **5. Scenario:** A text-processing tool reverses a given word or sentence for formatting purposes.
 - To read the ext word
 - Then use reverse to string function [::-1]
 - then print txt

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- **6. Scenario:** A grading system determines whether a student has passed or failed based on their score
 - If statement checks if student_score is greater than or equal to passing score.
 - If the condition is true
 - Prints "The student passed
 - If the condition is false
 - prints "The student failed.
- **7. Scenario:** A retail store offers a 20% discount if a customer's total order exceeds \$100.
 - Enter the total order
 - Then applying 20% discount
 - then using if-else statement
 - print the final price is amount
- **8.Scenario:** A banking system processes withdrawal requests and ensures the user has enough balance
 - To write the enter the withdrawn amount
 - then use if-else statement
 - print "you withdrawn: "amount
 - Then else print Insufficient balance
- **9. Scenario:** A calendar system verifies whether a given year is a leap year based on standard leap year rules.
 - Enter the leap year
 - then use if statement
 - check the year is divisible by 4
 - print leap year
 - else print not a leap year
- 10. Scenario: A program filters out only even numbers from a given list
 - To read the number of list.

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- then use for loop if number%2==0
- print even numbers