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

1. **Ask the user to enter their age using input()**
2. **Convert the input to an integer using int()**
3. **Store the result in a variable called age**
4. **Check if age is greater than or equal to 18 using an if statement**
5. **If the condition is true, print "Eligible"**
6. **If the condition is false, print "Not Eligible"**

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

1. **Create a list called numbers with values [23, 54, 65, 67, 43]**
2. **Assign the first element of the list (23) to a variable named largest**
3. **Start a for loop to iterate through each number in the list**
4. **Check if the current number is greater than largest using an if statement**
5. **If the condition is true, update largest with the current number**
6. **After the loop ends, print the value of largest**

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

1. **Prompt the user to enter their salary using input()**
2. **Convert the entered value to a float using float()**
3. **Store the result in a variable named salary**
4. **Check if salary is greater than 50,000 using an if statement**
5. **If true, calculate 10% of salary and assign it to bonus**
6. **If false, assign 0 to bonus**
7. **Print the message "Bonus amount:" followed by the value of bonus**

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

1. **Prompt the user to enter a number using input()**
2. **Convert the input to an integer using int()**

3. **Store the result in a variable named number**
4. **Use the modulo operator % to check if number is divisible by 2**
5. **If the result is 0, print that the number is even**
6. **If the result is not 0, print that the number is odd**

5.Scenario: A text-processing tool reverses a given word or sentence for formatting purposes.

1. **Prompt the user to enter a sentence using input()**
2. **Convert the input to a string using str()**
3. **Convert the string into a list of characters using list()**
4. **Reverse the list using the .reverse() method**
5. **Join the reversed list back into a string using ".join()**
6. **Store the result in a variable named reversed_text**
7. **Print the message "Reversed text:" followed by the reversed string**

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

1. **Prompt the user to enter their score using input()**
2. **Convert the input to a float using float()**
3. **Store the result in a variable named score**
4. **Check if score is greater than or equal to 40 using an if statement**
5. **If the condition is true, print "Result: Passed"**
6. **If the condition is false, print "Result: Failed"**

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

1. **Prompt the user to enter the order amount using input()**
2. **Convert the input to a float using float()**
3. **Store the result in a variable named order_amount**
4. **Check if order_amount is greater than 100 using an if statement**
5. **If true, calculate 20% of order_amount and assign it to discount**

6. **If false, assign 0 to discount**
7. **Subtract discount from order_amount and store the result in total_amount**
8. **Print the order amount, discount amount, and total amount using an f-string**

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

1. **Prompt the user to enter their current balance using input()**
2. **Convert the input to a float using float()**
3. **Store the result in a variable named balance**
4. **Prompt the user to enter the withdrawal amount using input()**
5. **Convert the input to a float and store it in a variable named withdraw**
6. **Check if withdraw is less than or equal to balance using an if statement**
7. **If true, subtract withdraw from balance and update the value**
8. **Print "Withdrawal successful"**
9. **Print the updated balance**
10. **If the condition is false, print "Insufficient balance"**

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

1. **Prompt the user to enter a year using input()**
2. **Convert the input to an integer using int()**
3. **Store the result in a variable named year**
4. **Check if year is divisible by 400 using year % 400 == 0**
5. **If true, print that the year is a leap year**
6. **If false, check if year is divisible by 100 using year % 100 == 0**
7. **If true, print that the year is not a leap year**
8. **If false, check if year is divisible by 4 using year % 4 == 0**

9. **If true, print that the year is a leap year**
10. **If none of the above conditions are true, print that the year is not a leap year**

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

Write logic to extract and return only the even numbers from a list.

1. **Create a list named numbers with values [34, 56, 76, 78, 23, 55]**
2. **Create an empty list named even_numbers to store even values**
3. **Start a for loop to iterate through each number in numbers**
4. **Check if the current number is divisible by 2 using num % 2 == 0**
5. **If true, append the number to the even_numbers list**
6. **After the loop ends, print the list of even numbers using an f-string**