PYTHON FLOW CONTROL: EXERCISE



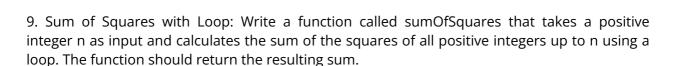
- 1. Even or Odd: Write a function called evenOrOdd that takes an integer as input and returns "Even" if the number is even, and "Odd" if the number is odd.
- 2. Maximum of Two Numbers: Write a function called maxOfTwo that takes two numbers as input and returns the maximum of the two.
- 3. Leap Year Checker: Write a function called isLeapYear that takes a year as input and returns True if it is a leap year, and False otherwise. (A leap year is divisible by 4, but not by 100 unless it is also divisible by 400).
- 4. Factorial Calculator: Write a function called factorial that takes an integer as input and returns its factorial. The factorial of a number n is the product of all positive integers less than or equal to n.
- 5. Greatest Common Divisor (GCD): Write a function called gcd that takes two positive integers as input and returns their greatest common divisor.
- 6. Absolute Value: Write a function called absoluteValue that takes a number as input and returns its absolute value without using the built-in abs() function.
- 7. Temperature Converter: Write a function called convertTemperature that takes a temperature in Celsius as input and returns it converted to Fahrenheit. The conversion formula is: Fahrenheit = (Celsius * 9/5) + 32.
- 8. Grade Calculator: Write a function called calculateGrade that takes a score as input and returns the corresponding letter grade according to the following scheme:
 - 90-100: A

you can solve:

- 80-89: B
- 70-79: C
- 60-69: D
- Below 60: F



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10. Quadratic Equation Solver: Write a function called solveQuadratic that takes three numbers (a, b, c) as input, representing the coefficients of a quadratic equation $ax^2 + bx + c = 0$, and returns the solutions as a tuple. If the equation has no real roots, return None.

Feel free to try solving these exercises, and let me know if you need any further assistance or solutions!

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Sincerely,

Juma Shafara

ML Software Developer, Coding Instructor



