

- Write a function that takes two numbers and returns their sum, but if the sum exceeds 100, return "Limit exceeded".
- Implement a function that determines if two numbers are equal without using
- Write a function that swaps two variables **without using a third variable**.
- Given a number, use a **bitwise operator** to check if it is even or odd.
- Write a function that returns "Positive", "Negative", or "Zero" based on a number using the **ternary operator**.
- Implement a function that performs **bitwise AND** on two given numbers.
- Write a function that returns true if a given number is a power of 2 using **bitwise operations**.
- Implement a function that uses **the modulo operator** to check if a number is

a multiple of another number.

- Given an array of numbers, write a function that calculates the sum of **only positive numbers** using the spread operator.
- Implement a function that reverses the sign of a number using only the **negation operator (-)**.
- Write a function that categorizes a person's age: "Child" (<13), "Teenager" (13-19), "Adult" (20-64), "Senior" (65+).
- Implement a function that checks whether a given year is a leap year.
- Create a function that takes three numbers and returns the largest.
- Write a function that returns the grade (A, B, C, D, F) based on a given percentage score.
- Given three angles, write a function to check if they can form a valid triangle.
- Implement a function that returns

"Fizz", "Buzz", "FizzBuzz", or the number itself based on **FizzBuzz** rules.

- Write a function that determines if a character is a **vowel or consonant**.
- Implement a **switch-case** function that returns the number of days in a given month (handle leap years for February).
- Write a function that takes a string and returns "Palindrome" if it is one, otherwise "Not a palindrome".
- Implement a function that checks whether a given **password is strong** (minimum 8 characters, contains a number, uppercase letter, and special character).
- Write a function that prints the **first 10 Fibonacci numbers** using a loop.
- Implement a function that reverses a given string without using `.reverse()`.
- Write a program to print below patterns

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* * *

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121

12321

1234321

123454321

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