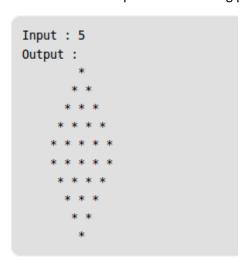
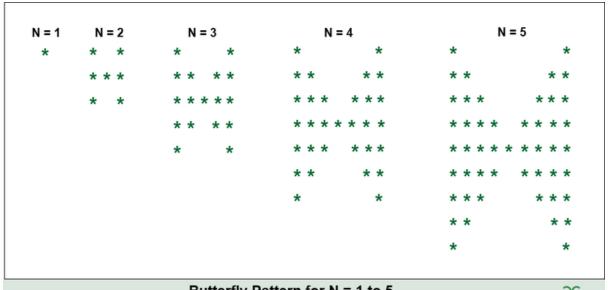
- 1.Define a function named "triple_and" that takes three parameters and returns True only if they are all True and False otherwise
- 2. Write a python program to sort a string alphabetically and print the count of each character.
- 3. Write a python program to check if given number is a hill number
- 4. Write a python function to perform selection sort on a given string.
- 5. Find the fabonacci of a given number using recursion.
- 6. Create a function that checks whether given string is an anagram or not?
- 7. Write a program to print the Fibonacci Sequence till n-values where n is user input.
- 8. Write a python program to divide a given string into equal parts containing n(user input) characters of same sequence. Example: string="abcdabcdabcdabcdabcd" n=4 output: "abcd", "abcd", "abcd", "abcd" If the division is not possible or the sequence cannot be same, print out the appropriate error.
- 9. Write a python function to encrypt a string using Ceasar's Cipher
- 10. Write a python function to check if a given credit card number is valid or not using Luhn's Algorithm
- 11. Write a Python program that prints the grade level of a given text using Coleman-Liau formula.
- 12. WAP a code to print the following patters.





Butterfly Pattern for N = 1 to 5

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13. Implement the following classes to understand abstraction in Python:

Note: Driver code makes all the function calls and print statements

Class Name: Shape (Abstract Class)

Attributes: color (String)

Constructor: Shape(c) -> assign value of c to color attribute

Methods: get_color() -> returns value of color

get_area() -> abstract method with float return type

Class Name: Square (extends Shape)

Attributes: side (float)

Constructor: Square(c, side) -> calls super(c) to initialize the color and assigns the value to side.

Methods: get_area() -> returns the area of the square (side * side)

- 14. Given an array arr[], find the first repeating element. The element should occur more than once and the index of its first occurrence should be the smallest.
- 15. Rotate an n*n matrix by 90° clockwise. Take a user input for a matrix and print the elements in spiral order