You cant use any inbuilt functions of Python

Learn if and for loop yourself.

## 1. Unitary Sum of Digits

Write a program that takes an integer as input and calculates the sum of its digits using a loop. The program should repeatedly sum the digits until a single digit is obtained. Do not use Python's built-in functions for string manipulation.

Here's an example to illustrate how the program works:

## Input:

- Suppose the user inputs the number '942'.

Step-by-Step Execution:

- 1. First Iteration:
  - Initial 'n': 942
  - Sum of digits:
  - -9+4+2=15
  - Update 'n': 15 (since 942 is not a single digit)
- 2. Second Iteration:
  - New 'n': 15
  - Sum of digits:
  - -1+5=6
  - Update 'n': 6 (since 15 is not a single digit)
- 3. Result:
  - Now 'n' is 6, which is a single digit.
  - The digital root of '942' is 6.

### Output:

Enter an integer: 942

The Unitary Sum of Digits of 942 is: 6

## 2. String Compression

Implement a basic string compression algorithm where consecutive identical characters in a string are replaced by the character followed by the count of repetitions. For example, the input "aaabbc" should be compressed to "a3b2c1". Do not use Python's built-in functions for string manipulation.