# Python Programs

## Code 1: Luhn Check Program

This Python program checks whether a given card number is valid or invalid using the Luhn algorithm.   
The program first separates the last digit (known as the check digit) and then reverses the remaining digits.   
Every second digit from the right is doubled, and if the result is greater than 9, 9 is subtracted from it.   
After that, all digits are added together with the check digit.   
If the total sum is divisible by 10, the card number is considered VALID; otherwise, it is INVALID.

## Code 2: Remove Punctuation from a Sentence

This program removes all punctuation marks from a given sentence.   
It defines a set of punctuation symbols and takes a sentence from the user as input.   
The program checks each character of the sentence one by one.   
If a character is not a punctuation mark, it is added to a new string.   
Finally, the program prints the original sentence and the cleaned sentence without punctuation.

## Code 3: Sort Sentence by Words and Letters

This program takes a sentence from the user and sorts it in two different ways.   
First, it sorts the words in alphabetical order without using the built-in sort() function.   
This is done using a nested loop that compares each word with the next and swaps them if they are out of order.   
Second, it sorts all the individual letters in the sentence alphabetically (ignoring spaces).   
Both results are displayed: one with the words arranged alphabetically and one with all letters arranged alphabetically.