

Task 1

Write a Python program to calculate the sum of all positive and negative integers in a given string.

'-100#^sdfkj8902w3ir021@swf-20'

Task 2

You are given a sentence and want to shift each letter by a given number in the alphabet to create a secret code.

The sentence you want to encode is 'the lazy dog jumped over the quick brown fox.' and the output should be

'vjg ncba fqi lworgf qxgt vjg swkem dtqyp hqz.'

Task 3

Create a class Bank that supports the following operations

1. `add_account`: creates a new account for a new user that contains information including but not limited to `user_name`, `address`, and so on.
2. `delete_account`: deletes an account. no data such as deposit money should be lost
3. `view`: return current information about a given account.
4. `deposit`: adds specified amount of money to a user's account
5. `withdraw`: removes specified amount of money from a user's account
6. `transfer`: transfers specified amount of money from one account to another if funds are unavailable raise an error
7. `sort`: sort accounts by largest amount of money transferred starting from a given date. If two (or more) accounts have the same amount of money transferred sort them by reverse alphabetical order (for example "b" would be smaller than "a") - from smallest to largest
8. `merge_two_accounts`: no data such as deposit money should be lost