1-

First problem: (hi,mn),(go,lt)

Second problem: (cvhi,cvlk),(goal, gone)

2-

First problem because it does not go the beginning of the alphabets then it will appear 5 not -21.

Second problem because the Consecutive Matching in their word are in the beginning.

3-

The first problem that when the shift variable is negative. You have to add condition when the shift is negative add 26 to it. 26 which is the number of the alphabets. The second problem when the function start count the consecutive matching in some cases one of the strings get out of their range. You have to make break condition before to get out of the range

Problem 1:

```
shift = (ord(codeword[0]) - ord(original[0])) shift: -21
              for idx in range(len(codeword)): idx: 1
                 num=ord(codeword[idx]) - ord(original[idx]) num: 5
                     return -1
              return shift
          print(caesar("very","ajwd"))
  93
          caesar() > for idx in range(len(codeword))
     ariables
 In codeword = {str} 'ajwd'
 ₩ num = {int} 5
 In original = {str} 'very'
```

Problem 2:

```
best_length = 0 best_length: 0
# for all possible string1 start points
for idx1 in range(len(string1)-1): idx1: 0
                       # for all possible string2 start points
for idx2 in range(len(string2)-1): idx2: 0
                             # check if these characters match
if string1[idx1] == string2[idx2]:
                                  # compare to best so far
                                   if this_match_count > best_length:
                                        best_length = this_match_count
                  return best_length
            print(match("hello","hell"))
             match() \rightarrow \ for \ idx1 \ in \ range(len(string1) - ... \rightarrow \ for \ idx2 \ in \ range(len(string2) - ... \rightarrow \ if \ string1[idx1] \ == \ string2[idx...]
     田

    best_length = {int} 0

    idx1 = {int} 0

    idx2 = {int} 0

string1 = {str} 'hello'
string2 = {str} 'hell'
this_match_count = {int} 1
```