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Lab 3

Task 1: Caesar cipher using python

Python Code:

```
def encrypt(text,s):
    result = ""
    # transverse the plain test
    for i in range(len(text)):
        char = text[i]
        # Encrypt uppercase characters in plain text
        if (char.isupper()):
            result += chr((ord(char) + s-65) % 26 + 65)
        # Encrypt lowercase characters in plain text
        else:
            result += chr((ord(char) + s -97) %26 +97)
    return result

#check the above function
text = "CEASER CIPHER DEMO"
s = 4
print("Plain Text: " + text)
print("Shift pattern : " + str(s))
print("Cipher: " + encrypt(text,s))
```

Output:

```
Plain Text: CEASER CIPHER DEMO
Shift pattern : 4
Cipher: GIEWIVrGMTLIVrHIQS
```

[illegible]

Most probable key (17):

Key #17: VEPaidMyDueTimeAfterTimeI've Done My Sentence But
Committed No Crime And Bad Mistakes I've Made A Few I've
Had My Share Of And Kicked In My Face But I've Come Throu
gh We Are The Champions My Friends And Well Keep On Figh
ting Till The End We Are The Champions We Are The Champio
ns Not Time For Losers Cause We Are The Champions Of The Wor
ld I've Taken My Bows And My Curtain Calls You Brought Me F
ame And Fortune And Everything That Goes With It I Than
k You All But It's Been No Bed Of Roses No Pleasure Cruise I Co
nsider It A Challenge Before The Whole Human Race And I A
int Gonna Lose We Are The Champions My Friends And Well