i Implementing a Caesar Cipher in Python! i

Recently, I explored implementing a classic **Caesar Cipher** in Python. It's a simple yet fascinating encryption technique where each letter in a message is shifted by a certain number of positions in the alphabet. Here's a look at the code and some examples!

Code:

```
data = input("enter data : ")
n = int(input("enter shift value : ")) # Number of shifts
cipher = ""
for i in range(len(data)): # Traversing through the data
  if data[i].isalpha(): # If the character is an alphabet
  if data[i].isupper(): # For uppercase letters (A-Z), UNICODES 65-90
      cipher += chr(((ord(data[i]) - 65 + n) % 26) + 65)
    elif data[i].islower(): # For lowercase letters (a-z), UNICODES 97-122
      cipher += chr(((ord(data[i]) - 97 + n) % 26) + 97)
    else:
      cipher += data[i]
print("Cipher: " + cipher)
```

Sample Outputs:

```
Input 1:
enter data: Hello
enter shift value: 3
Output:
Cipher: Khoor
```

```
Input 2:
enter data: Caesar Cipher Example!
enter shift value: 5
Output:
Cipher: Hfjxfw Hnumjw Jcsjqir!
```

Input 3:

enter data: "The Caesar cipher technique is one of the earliest and simplest forms of encryption. It involves shifting each letter in the plaintext by a certain number of positions down or up the alphabet. Despite its simplicity, it was effective for many years, particularly for military purposes."

enter shift value: 7

Output:

Cipher: "Aol Jhlzhy jvylzopz aolyljrpl pz vul vm aol lhyspzapu huk zpztpsluaf mvyzt vm luaopthapvu. Pa puvtlslz zolapu lhcl svkkol ypun aol twlplubcma f thylz vm wlzavzopuz dulv vy vb aol hswoylzoh. Klzwtva pa zptspwjpz, pa dhz lmmlcavc mvy thuf fohz, wzapjukpylcl mvy tpjsvayz wyhzmslz."