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Client

```
import socket
def encrypt(string, shift):
 cipher = "
 for char in string:
  if char == ' ':
   cipher = cipher + char
  elif char.isupper():
   cipher = cipher + chr((ord(char) + shift - 65) % 26 + 65)
  else:
   cipher = cipher + chr((ord(char) + shift - 97) % 26 + 97)
 return cipher
# text = input("enter string: ")
# s = int(input("enter shift number: "))
# print("original string: ", text)
# print("after encryption: ", encrypt(text, s))
```

```
s = socket.socket()
s.connect(('127.0.0.1',12345))
print("Connection initialed...")
print("Type exit to finish sending data")
while True:
        print("Enter your message:")
        print("This is a new message")
        str = input("Enter the key number 1-26 \n")
        # if s.str()
        s.send(str.encode())
        if(str == 0):
                s.send(str.encode())
                break
        # print ("N:",s.recv(1024).decode())
s.close()
```

Server

```
import socket
import datetime

def encrypt(string, shift):
    cipher = "
```

```
for char in string:
  if char == ' ':
   cipher = cipher + char
  elif char.isupper():
   cipher = cipher + chr((ord(char) + shift - 65) % 26 + 65)
  else:
   cipher = cipher + chr((ord(char) + shift - 97) \% 26 + 97)
 return cipher
s = socket.socket()
port = 12345
s.bind((", port))
s.listen(5)
c, addr = s.accept()
print ("Socket Up and running with a connection from",addr)
print(datetime.datetime.now())
while True:
        date = datetime.datetime.now()
        rcvdData = c.recv(1024).decode()
        print ("S:",rcvdData)
        text = ("This is a new message")
        # enc = encrypt(text, int(rcvdData))
        print("coded message: %s" % encrypt(text, int(rcvdData)))
```

```
print("encode message: %s " % text)

print(date)

# sendData = input("N: ")

conv= str(rcvdData)

f= open("hasil.txt","a+")

f.write(str(rcvdData)+','+str(date) + ','+encrypt(text, int(rcvdData))+'\n')

# c.send(sendData.encode())

if(int(rcvdData)==0):

break

c.close()
```

Result

FILE PROCESSING

```
1 3,2019-03-27 15:47:07.356889,Wklv lv d qhz phvvdjh
2 4,2019-03-27 15:47:18.361700,Xlmw mw e ria qiwweki
3 2,2019-03-27 15:47:18.799171,Vjku ku c pgy oguucig
4 5,2019-03-27 15:47:19.471064,Ymnx nx f sjb rjxxflj
```