

colab-jupyter.log X



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import logging
import threading
#this is for python 3.0
from threading import Thread
import time

d={} #'d' is the dictionary
#for create operation
#use syntax "create(key,value)"
def create(key,value):
    if key in d:
        print("error: key already exists")
    else:
        if(key.isalpha() and len(d)<100):
            if time.time()-d[key][1]>300:
                else:
                    print("error: Memory limit exceeded!! ")#error message2
            else:
                print("error: Invalid key_name!! key_name must contain only alphabets and no numbers and symbols")
#for read operation
#use syntax "read(key_name)"
def read(key):
    if key not in d:
        print("error: given key does not exist in database.") #error message4
    else:
        b=d[key]
        if b[1]!=0:
            if time.time()-b[1]>300: #comparing the present time with expiry time
                stri=str(key)+":"+str(b[0]) #to return the value in the format of JasonObj
                return stri
            else:
                print("error: time-to-live of",key,"has expired") #error message5
        else:
            stri=str(key)+":"+str(b[0])
            return stri

#for delete operation
#use syntax "delete(key_name)"
def delete(key):
    if key not in d:
        print("error: given key does not exist in database. ") #error message4
    else:
        h=d[key]

```

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Timestamp	Level	Message
Jan 1, 2021, 2:02:55 AM	WARNING	WARNING:root:kernel 41c60ac0-341c-4340-8047-ce4ca6a9abf4 restarted
Jan 1, 2021, 2:02:55 AM	INFO	KernelRestarter: restarting kernel (1/5), keep random ports
Jan 1, 2021, 1:58:19 AM	WARNING	WARNING:root:kernel 41c60ac0-341c-4340-8047-ce4ca6a9abf4 restarted
Jan 1, 2021, 1:58:19 AM	INFO	KernelRestarter: restarting kernel (1/5), keep random ports
Jan 1, 2021, 1:56:13 AM	WARNING	WARNING:root:kernel 41c60ac0-341c-4340-8047-ce4ca6a9abf4 restarted
Jan 1, 2021, 1:56:13 AM	INFO	KernelRestarter: restarting kernel (1/5), keep random ports
Jan 1, 2021, 1:54:40 AM	WARNING	WARNING:root:kernel 41c60ac0-341c-4340-8047-ce4ca6a9abf4 restarted
Jan 1, 2021, 1:54:40 AM	INFO	KernelRestarter: restarting kernel (1/5), keep random ports
Jan 1, 2021, 1:53:43 AM	WARNING	WARNING:root:kernel 41c60ac0-341c-4340-8047-ce4ca6a9abf4 restarted
Jan 1, 2021, 1:53:43 AM	INFO	KernelRestarter: restarting kernel (1/5), keep random ports

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1 2 3 4

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    if b[1]!=0:
        if time.time()<b[1]: #comparing the current time with expiry time
            del d[key]
            print("key is successfully deleted")
        else:
            print("error: time-to-live of",key,"has expired") #error message5
    else:
        del d[key]
        print("key is successfully deleted")

print("enter any key")
n=int(input())
if(n==1):
    print("enter key")
    key=input()
    value=int(input())
    create(key,value)
if(n==2):
    print("enter key to read")
    def checkKey(d, key):
        if d.has_key(key): #has_keys() method has been removed from Python3 version. Therefo
            print("Present, value =", d[key] )
        else:
            print("Not present")
    checkKey(d, key)
    read(key)
if(n==3):
    print("enter key")
    key=input()
    read(key)
if(n<1 or n>3):
    print("enter valid number")
exit()

#we can access these using multiple threads like
t1=Thread(target=(create),args=(1,)) #as per the operation
t1.start()
time.sleep(1)
t2=Thread(target=(read),args=(1,)) #as per the operation
t2.start()
time.sleep(1)
t3=Thread(target=(delete),args=(1,))
t3.start()
time.sleep(1)
#and so on upto tn
print(d)
#the code also returns other errors like
#"invalidkey" if key_length is greater than 32 or key_name contains any numeric,special ch
#"key doesnot exist" if key_name was mis-spelt or deleted earlier
#"File memory limit reached" if file memory exceeds 1GB

v=input("If vou want it to master database Sav ves or no")

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```
import json\nif(y=='yes'):\n    data={}\n    import json\n    with open('master.json','r') as fp:\n        data = json.load(fp)\n    master=dict(data)\n    master.update(d)\n    with open('master.json','w') as fp:\n        json.dump(master,fp)\n\nprint("Done!! Thank you!")
```

enter any key

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enter key

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Exception in

Traceback (m

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TypeError: c

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If you want :

Done!! Thank

