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from pickle import load,dump

import time

import random

import os

class tickets:

    def __init__(self):

        self.no_ofac1stclass=0

        self.totaf=0

        self.no_ofac2ndclass=0

        self.no_ofac3rdclass=0

        self.no_ofsleeper=0

        self.no_oftickets=0

        self.name=""

        self.age=""

        self.resno=0

        self.status=""

    def ret(self):

        return(self.resno)

    def retname(self):

        return(self.name)

    def display(self):

        f=0

        fin1=open("tickets.dat","rb")

        if not fin1:

            print "ERROR"

        else:

            print

            n=int(raw_input("ENTER PNR NUMBER : "))

            print "\n\n"
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print ("FETCHING DATA . . .".center(80))

time.sleep(1)

print

print('PLEASE WAIT...!!'.center(80))

time.sleep(1)

os.system('cls')

try:

    while True:

        tick=load(fin1)

        if(n==tick.ret()):

            f=1

            print "="*80

            print("PNR STATUS".center(80))

            print "="*80

            print

            print "PASSENGER'S NAME :",tick.name

            print

            print "PASSENGER'S AGE :",tick.age

            print

            print "PNR NO :",tick.resno

            print

            print "STATUS :",tick.status

            print

            print "NO OF SEATS BOOKED : ",tick.no_oftickets

            print

except:

    pass

fin1.close()

if(f==0):
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        print
        print "WRONG PNR NUMBER..!!"
        print
def pending(self):
    self.status="WAITING LIST"
    print "PNR NUMBER :",self.resno
    print
    time.sleep(1.2)
    print "STATUS = ",self.status
    print
    print "NO OF SEATS BOOKED : ",self.no_oftickets
    print
def confirmation (self):
    self.status="CONFIRMED"
    print "PNR NUMBER : ",self.resno
    print
    time.sleep(1.5)
    print "STATUS = ",self.status
    print
def cancellation(self):
    z=0
    f=0
    fin=open("tickets.dat","rb")
    fout=open("temp.dat","ab")
    print
    r= int(raw_input("ENTER PNR NUMBER : "))
    try:
        while(True):
            tick=load(fin)

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        z=tick.ret()

        if(z!=r):

            dump(tick,fout)

        elif(z==r):

            f=1

except:

    pass

fin.close()

fout.close()

os.remove("tickets.dat")

os.rename("temp.dat","tickets.dat")

if (f==0):

    print

    print "NO SUCH RESERVATION NUMBER FOUND"

    print

    time.sleep(2)

    os.system('cls')

else:

    print

    print "TICKET CANCELLED"

    print"RS.600 REFUNDED...."

def reservation(self):

    trainno=int(raw_input("ENTER THE TRAIN NO:"))

    z=0

    f=0

    fin2=open("tr1details.dat")

    fin2.seek(0)

    if not fin2:

        print "ERROR"

```

else:

try:

while True:

tr=load(fin2)

z=tr.gettrainno()

n=tr.gettrainname()

if (trainno==z):

print

print "TRAIN NAME IS : ",n

f=1

print

print "-"\*80

no\_ofac1st=tr.getno\_ofac1stclass()

no\_ofac2nd=tr.getno\_ofac2ndclass()

no\_ofac3rd=tr.getno\_ofac3rdclass()

no\_ofsleeper=tr.getno\_ofsleeper()

if(f==1):

fout1=open("tickets.dat","ab")

print

self.name=raw\_input("ENTER THE PASSENGER'S NAME ")

print

self.age=int(raw\_input("PASSENGER'S AGE : "))

print

print"\t\t SELECT A CLASS YOU WOULD LIKE TO TRAVEL IN :- "

print "1.AC FIRST CLASS"

print

print "2.AC SECOND CLASS"

print

print "3.AC THIRD CLASS"

```

print
print "4.SLEEPER CLASS"
print
c=int(raw_input("\t\tENTER YOUR CHOICE = "))
os.system('cls')
amt1=0
if(c==1):
    self.no_oftickets=int(raw_input("ENTER NO_OF FIRST CLASS AC SEATS TO BE BOOKED :
"))
    i=1
    while(i<=self.no_oftickets):
        self.totaf=self.totaf+1
        amt1=1000*self.no_oftickets
        i=i+1
    print
    print "PROCESSING. .",
    time.sleep(0.5)
    print ". ",
    time.sleep(0.3)
    print '.'
    time.sleep(2)
    os.system('cls')
    print "TOTAL AMOUNT TO BE PAID = ",amt1
    self.resno=int(random.randint(1000,2546))
    x=no_ofac1st-self.totaf
    print
    if(x>0):
        self.confirmation()
        dump(self,fout1)

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        break
    else:
        self.pending()
        dump(tick,fout1)
        break
    elif(c==2):
        self.no_oftickets=int(raw_input("ENTER NO_OF SECOND CLASS AC SEATS TO BE BOOKED
: "))
        i=1

```

```

def menu():
    tr=train()
    tick=tickets()
    print
    print "WELCOME TO PRAHIT AGENCY".center(80)
    while True:
        print
        print "="*80
        print " \t\t\t RAILWAY"
        print
        print "="*80
        print
        print "\t\t\t1. **UPDATE TRAIN DETAILS."
        print
        print "\t\t\t2. TRAIN DETAILS. "
        print
        print "\t\t\t3. RESERVATION OF TICKETS."

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print
print "\t\t\t4. CANCELLATION OF TICKETS. "
print
print "\t\t\t5. DISPLAY PNR STATUS."
print
print "\t\t\t6. QUIT."
print "*** - office use....."
ch=int(raw_input("\t\t\tENTER YOUR CHOICE : "))
os.system('cls')
print "\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\tLOADING. .",
time.sleep(1)
print ("."),
time.sleep(0.5)
print (".")
time.sleep(2)
os.system('cls')
if ch==1:
    j="*****"
    r=raw_input("\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\tENTER THE PASSWORD: ")
    os.system('cls')
    if (j==r):
        x='y'
        while (x.lower()=='y'):
            fout=open("tr1details.dat","ab")
            tr.getinput()
            dump(tr,fout)
            fout.close()
            print"\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\tUPDATING TRAIN LIST PLEASE WAIT . .",
            time.sleep(1)
```



```
print ("."),  
time.sleep(0.5)  
print ("."),  
time.sleep(2)  
os.system('cls')  
print "\n\n\n\n\n\n\n\n\n\n"  
x=raw_input("\t\tDO YOU WANT TO ADD ANY MORE TRAINS DETAILS ? ")  
os.system('cls')  
  
continue  
  
elif(j<>r):  
    print"\n\n\n\n\n"  
    print "WRONG PASSWORD".center(80)  
  
elif ch==2:  
    fin=open("tr1details.dat",'rb')  
    if not fin:  
        print "ERROR"  
  
    else:  
        try:  
            while True:  
                print"*"*80  
                print"\t\t\tTRAIN DETAILS"  
                print"*"*80  
                print  
                tr=load(fin)  
                tr.output()  
  
                raw_input("PRESS ENTER TO VIEW NEXT TRAIN DETAILS")
```

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        os.system('cls')

    except EOFError:

        pass

elif ch==3:

    print=''*80

    print "\t\t\t\tRESERVATION OF TICKETS"

    print=''*80

    print

    tick.reservation()

elif ch==4:

    print=""*80

    print"\t\t\t\tCANCELLATION OF TICKETS"

    print

    print=""*80

    print

    tick.cancellation()

elif ch==5:

    print " "*80

    print("PNR STATUS".center(80))

    print=""*80

    print

    tick.display()

elif ch==6:

    quit()


raw_input("PRESS ENTER TO GO TO BACK MENU".center(80))

os.system('cls')

```

menu()