Ticket Cancellation:

```python
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"
```

```python
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):
```

```python
            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)
```

```python
            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"
```

```python
        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"
```

```python
        print
        print "4.SLEEPER CLASS"
        print
        c=int(raw_input("\t\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)
```

```python
                    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\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."
```

```python
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\t\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\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\t\t\tUPDATING TRAIN LIST PLEASE WAIT . .",
            time.sleep(1)
```

```python
        print ("."),
        time.sleep(0.5)
        print ("."),
        time.sleep(2)
        os.system('cls')
        print "\n\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\t\tTRAIN DETAILS"
        print"*"*80
        print
        tr=load(fin)
        tr.output()


        raw_input("PRESS ENTER TO VIEW NEXT TRAIN DETAILS")
```

```python
            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()
```