Team ID	PNT2022TMID03711
Project Name	Smart solution for Railways.

TICKET CANCELLATION

```
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"
```

```python
    else:
        print
        n=int(raw_input("ENTER PNR NUMBER : "))
        print "\n\n"
        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:
```

```python
            pass
        fin1.close()
        if(f==0):
            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:
```

```python
        while(True):
            tick=load(fin)
            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:
```

```python
        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"
```

```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)
                    break
                else:
```

```python
                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."
        print
        print "\t\t\t4. CANCELLATION OF TICKETS. "
        print
        print "\t\t\t5. DISPLAY PNR STATUS."
```

```python
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\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\t\t\tUPDATING TRAIN LIST PLEASE WAIT .
.",
            time.sleep(1)
            print ("."),
            time.sleep(0.5)
            print ("."),
            time.sleep(2)
            os.system('cls')
```

```python
                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")
                    os.system('cls')
            except EOFError:
                pass
    elif ch==3:
        print'='*80
        print "\t\t\t\tRESERVATION OF TICKETS"
```

```python
        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()
```