

CODING

MODULES USED

tickets.py

```
def __init__():
    no_ofac1stclass=0
    totaf=0
    no_ofac2ndclass=0
    no_ofac3rdclass=0
    no_ofsleeper=0
    no_oftickets=0
    name=""
    age=""
    resno=0
    status=""

def ret():
    return(resno)

def retname():
    return(name)

def display():
    f=0
    fin1=open("tickets.dat","rb")
    if not fin1:
        print ("ERROR")
    else:
        print
        n=int(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:
    pass
    fin1.close()
    if(f==0):
        print
        print ("WRONG PNR NUMBER..!!")
        print
def pending():
    status="WAITING LIST"
    print ("PNR NUMBER :",resno)
    print
    time.sleep(1.2)
    print ("STATUS = ",status)
    print
    print ("NO OF SEATS BOOKED : ",no_oftickets)
    print
def confirmation ():
    status="CONFIRMED"
    print ("PNR NUMBER : ",resno)
    print
    time.sleep(1.5)
    print ("STATUS = ",status)
    print
def cancellation():
    z=0
    f=0
    fin=open("tickets.dat","rb")
    fout=open("temp.dat","ab")
    print
    r= int(input("ENTER PNR NUMBER : "))
    try:
        while(True):

```

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    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
def reservation():
    trainno=int(input("ENTER THE TRAIN NO:"))
    z=0
    f=0
    fin2=open("trdetails.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):

```

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fout1=open("tickets.dat","ab")
print
name=input
print("ENTER THE PASSENGER'S NAME ")
print
age=int(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(input("\t\t\tENTER YOUR CHOICE = "))
os.system('cls')
amt1=0
if(c==1):
    no_oftickets=int(input("ENTER NO_OF FIRST CLASS AC 5SEATS TO BE BOOKED : "))
    i=1
    while(i<=no_oftickets):
        totaf=totaf+1
        amt1=1000*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)
        resno=int(random.randint(1000,2546))
        x=no_ofac1st-totaf
        print
        if(x>0):
            confirmation()
            dump(fout1)
            break
        else:
            pending()
            dump(tick,fout1)
            break
    elif(c==2):
        no_oftickets=int(input("ENTER NO_OF SECOND CLASS AC SEATS TO BE BOOKED : "))
        i=1

```

```

while(i<=no_oftickets):
    totaf=totaf+1
    amt1=900*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)
    resno=random.randint(1000,2546)
    x=no_ofac2nd-totaf
    print
    if(x>0):
        confirmation()
        dump(fout1)
        break
    else:
        pending()
        dump(tick,fout1)
        break
elif(c==3):
    no_oftickets=int(input("ENTER NO_OF THIRD CLASS AC SEATS TO BE BOOKED : "))
    i=1
    while(i<=no_oftickets):
        totaf=totaf+1
        amt1=800*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)
        resno=random.randint(1000,2546)
        x=no_ofac3rd-totaf
        print
        if(x>0):
            confirmation()
            dump(fout1)
            break
        else:
            pending()
            dump(tick,fout1)
            break
elif(c==4):

```

```

no_oftickets=int(input("ENTER NO_OF SLEEPER CLASS SEATS TO BE BOOKED : "))
i=1
while(i<=no_oftickets):
    totaf=totaf+1
    amt1=550*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)
    resno=random.randint(1000,2546)
    x=no_ofsleeper-totaf
    print
    if(x>0):
        confirmation()
        dump(fout1)
        break
    else:
        pending()
        dump(tick,fout1)
        break
except:
    pass
if(f==0):
    time.sleep(2)
    print ("\n\n\n\n\n\n\t\t\t\t NO SUCH TRAINS FOUND !!")
    time.sleep(2)
    print
    print
    print

```

train.py

```

def __init__():
    trainno=0
    no_ofac1stclass=0
    no_ofac2ndclass=0
    no_ofac3rdclass=0
    no_ofsleeper=0
    totalseats=0
    trainname=""
    startingpt=""
    destination=""

```

```

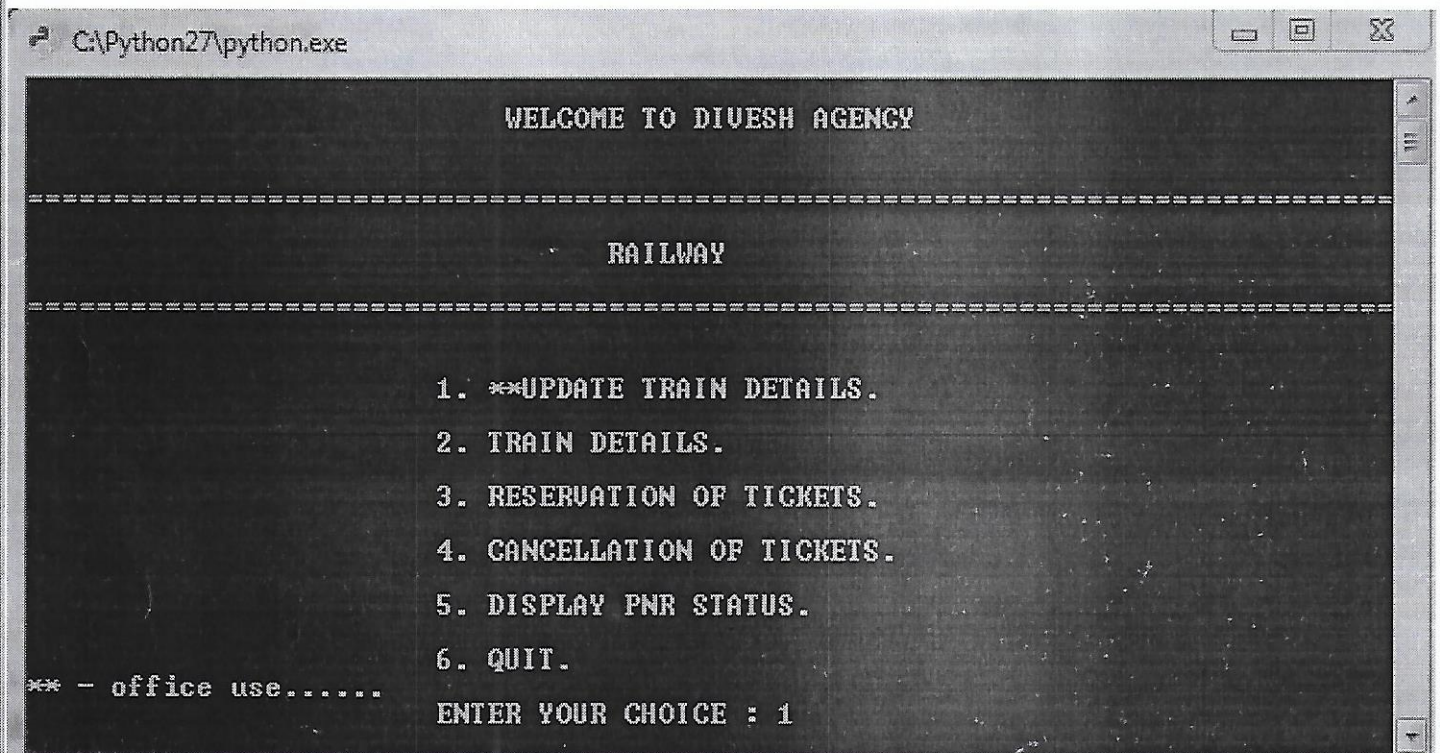
def getinput():
    print ("="*80)
    print ("\t\t\t\t\t ENTER THE TRAIN DETAILS")
    print
    print ("="*80)
    trainname=input("ENTER THE TRAIN NAME : ").upper()
    print
    trainno=int(input("ENTER THE TRAIN NUMBER: "))
    print
    no_ofac1stclass=int(input("ENTER NO_OF AC FIRST CLASS SEATS TO BE RESERVED : "))
    print
    no_ofac2ndclass=int(input("ENTER NO_OF AC SECOND CLASS SEATS TO BE RESERVED : "))
    print
    no_ofac3rdclass=int(input("ENTER NO_OF AC THIRD CLASS SEATS TO BE RESERVED : "))
    print
    no_ofsleeper=int(input("ENTER NO_OF SLEEPER CLASS +SEATS TO BE RESERVED : "))
    print
    startingpt=input("ENTER THE STARTING POINT : ")
    print
    destination=input("ENTER THE DESTINATION POINT : ")
    os.system('cls')
def output():
    print ("="*80)
    print
    print ("THE ENTERED TRAIN NAME IS : ",trainname)
    print ("THE TRAIN NUMBER IS : ",trainno)
    print ("STARTING POINT ENTERED IS : ",startingpt)
    print ("DESTINATION POINT ENTERED IS : ",destination)
    print ("NO_OF AC FIRST CLASS SEATS RESERVED ARE :",no_ofac1stclass)
    print ("NO_OF AC SECOND CLASS SEATS RESERVED ARE :",no_ofac2ndclass)
    print ("NO_OF AC THIRD CLASS SEATS RESERVED ARE :",no_ofac3rdclass)
    print ("NO_OF SLEEPER CLASS SEATS RESERVED ARE :",no_ofsleeper)
    print
    print ("="*80)
def gettrainname():
    return (trainname)
def gettrainno():
    return(trainno)
def getno_ofac1stclass():
    return(no_ofac1stclass)
def getno_ofac2ndclass():
    return(no_ofac2ndclass)
def getno_ofac3rdclass():
    return(no_ofac3rdclass)
def getno_ofsleeper():
    return (no_ofsleeper)
def getstartingpt():

```

```
return (startingpt)
def getdestination():
    return (destination)
```

MAIN CODE USED

```
from pickle import load,dump
import time
import random
import os
import tickets
import train
```

A screenshot of a Python terminal window titled 'C:\Python27\python.exe'. The terminal displays a menu for 'DIVESH AGENCY RAILWAY'. The menu items are: 1. **UPDATE TRAIN DETAILS., 2. TRAIN DETAILS., 3. RESERVATION OF TICKETS., 4. CANCELLATION OF TICKETS., 5. DISPLAY PNR STATUS., 6. QUIT. Below the menu, it says '** - office use.....' and 'ENTER YOUR CHOICE : 1'. The terminal has a dark background and white text.

```
C:\Python27\python.exe
WELCOME TO DIVESH AGENCY
=====
                RAILWAY
=====
1. **UPDATE TRAIN DETAILS.
2. TRAIN DETAILS.
3. RESERVATION OF TICKETS.
4. CANCELLATION OF TICKETS.
5. DISPLAY PNR STATUS.
6. QUIT.
** - office use.....
ENTER YOUR CHOICE : 1
```

```
def menu():
    tr=train()
    tick=tickets()
    print
    print ("WELCOME TO DIVESH AGENCY".center(80))
    while True:
        print
        print ("="*80)
        print ("\t\t\t RAILWAY")
        print
        print ("="*80)
        print
```


C:\Python27\python.exe

ENTER THE TRAIN DETAILS

ENTER THE TRAIN NAME : CHENNAI EXPRESS

ENTER THE TRAIN NUMBER: 12104

ENTER NO_OF AC FIRST CLASS SEATS TO BE RESERVED : 300

ENTER NO_OF AC SECOND CLASS SEATS TO BE RESERVED : 350

ENTER NO_OF AC THIRD CLASS SEATS TO BE RESERVED : 400

ENTER NO_OF SLEEPER CLASS SEATS TO BE RESERVED : 450

ENTER THE STARTING POINT : CHENNAI

ENTER THE DESTINATION POINT : BANGLORE

C:\Python27\python.exe

DO YOU WANT TO ADD ANY MORE TRAINS DETAILS ? N

```

if ch==1:
    j="password"
    r=input("\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("trdetails.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\n\n\t\t\t UPDATING 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\n\n\n\n\n\n\n")
    x=input("\t\t DO YOU WANT TO ADD ANY MORE TRAINS DETAILS ? ")
    os.system('cls')
    continue
elif(j!=r):
    print("\n\n\n\n\n\n\n")
    print("WRONG PASSWORD".center(80))
```

C:\Python27\python.exe

RAILWAY

1. **UPDATE TRAIN DETAILS.
2. TRAIN DETAILS.
3. RESERVATION OF TICKETS.
4. CANCELLATION OF TICKETS.
5. DISPLAY PNR STATUS.
6. QUIT.

** - office use.....

ENTER YOUR CHOICE : 2

```
C:\Python27\python.exe
=====
                                TRAIN DETAILS
=====
THE ENTERED TRAIN NAME IS : CHENNAI EXPRESS
THE TRAIN NUMBER IS : 12104
STARTING POINT ENTERED IS : CHENNAI
DESTINATION POINT ENTERED IS : BANGLORE
NO_OF AC FIRST CLASS SEATS RESERVED ARE : 300
NO_OF AC SECOND CLASS SEATS RESERVED ARE : 350
NO_OF AC THIRD CLASS SEATS RESERVED ARE : 400
NO_OF SLEEPER CLASS SEATS RESERVED ARE : 450
=====
PRESS ENTER TO VIEW NEXT TRAIN DETAILS
```

```
C:\Python27\python.exe
=====
                                TRAIN DETAILS
=====
                                PRESS ENTER TO GO TO BACK MENU
=====
```

```
elif ch==2:
    fin=open("trdetails.dat",'rb')
    if not fin:
        print ("ERROR")
    else:
        try:
```