

# Source Code

```
import pymysql as x
import random
```

```
def basic():
```

```
    try:
```

```
        db=x.connect(host='localhost',user='root',passwd='arnav')
        cur=db.cursor()
        cur.execute("create database air")
        cur.execute("use air")
        cur.execute("create table data(f_name varchar(30),l_name varchar(30),gender
varchar(1),ph_no int,email_id varchar(30),d_date varchar(30),r_date varchar(30),origin
varchar(30),destination varchar(30),PNR varchar(5),status varchar(10))")
        cur.execute("create table classes(SNo int,name varchar(10),price int)")
        cur.execute("insert into classes values(1,'Economy',2000)")
        cur.execute("insert into classes values(2,'Business',4000)")
        cur.execute("insert into classes values(3,'First',6000)")
        db.commit()
        cur.execute("create table menu(SNo int,item varchar(20),price int)")
        cur.execute("insert into menu values(1,'Tea',20)")
        cur.execute("insert into menu values(2,'Coffee',20)")
        cur.execute("insert into menu values(3,'Soft Drink',30)")
        cur.execute("insert into menu values(4,'Soup',30)")
        cur.execute("insert into menu values(5,'Sandwich',50)")
        cur.execute("insert into menu values(6,'Salad',30)")
        cur.execute("insert into menu values(7,'Noodles',100)")
        cur.execute("insert into menu values(8,'Wrap',80)")
        cur.execute("insert into menu values(9,'Pastry',100)")
        cur.execute("insert into menu values(10,'Ice Cream',50)")
        db.commit()
        cur.execute("create table luggage(SNo int,weight varchar(10),price int)")
        cur.execute("insert into luggage values(1,'15Kg',1000)")
        cur.execute("insert into luggage values(2,'20Kg',2000)")
        cur.execute("insert into luggage values(3,'25Kg',3000)")
        cur.execute("insert into luggage values(4,'30Kg',4000)")
        db.commit()
        print('Database Created...')
        print('All Tables Created...')
```

```
except:
```

```
    db=x.connect(host='localhost',user='root',passwd='arnav',db='air')
    cur=db.cursor()
```

```
print("Database Already Exists...")
```

```
try:
```

```
    cur.execute("desc data")  
    print('Table - Data Exists...')
```

```
except:
```

```
    cur.execute("create table data(f_name varchar(30),l_name varchar(30),gender  
varchar(1),ph_no int,email_id varchar(30),d_date varchar(30),r_date varchar(30),origin  
varchar(30),destination varchar(30),PNR varchar(5),status varchar(10))")  
    print('Table - Data Created...')
```

```
try:
```

```
    cur.execute("desc classes")  
    print('Table - Class Exists...')
```

```
except:
```

```
    cur.execute("create table classes(SNo int,name varchar(10),price int")  
    cur.execute("insert into classes values(1,'Economy',2000)")  
    cur.execute("insert into classes values(2,'Business',4000)")  
    cur.execute("insert into classes values(3,'First',6000)")  
    db.commit()  
    print('Table - Class Created...')
```

```
try:
```

```
    cur.execute("desc menu")  
    print('Table - Menu Exists...')
```

```
except:
```

```
    cur.execute("create table menu(SNo int,item varchar(10),price int)")  
    cur.execute("insert into menu values(1,'Tea',20)")  
    cur.execute("insert into menu values(2,'Coffee',20)")  
    cur.execute("insert into menu values(3,'Soft Drink',30)")  
    cur.execute("insert into menu values(4,'Soup',30)")  
    cur.execute("insert into menu values(5,'Sandwich',50)")  
    cur.execute("insert into menu values(6,'Salad',30)")  
    cur.execute("insert into menu values(7,'Noodles',100)")  
    cur.execute("insert into menu values(8,'Wrap',80)")  
    cur.execute("insert into menu values(9,'Pastry',100)")  
    cur.execute("insert into menu values(10,'Ice Cream',50)")  
    db.commit()  
    print('Table - Menu Created...')
```

```
try:
```

```
    cur.execute("desc luggage")  
    print('Table - Luggage Exists...')
```

```
except:
```

```

cur.execute("create table luggage(SNo int,weight varchar(10),price int)")
cur.execute("insert into luggage values(1,'15Kg',1000)")
cur.execute("insert into luggage values(2,'20Kg',2000)")
cur.execute("insert into luggage values(3,'25Kg',3000)")
cur.execute("insert into luggage values(4,'30Kg',4000)")
db.commit()
print('Table - Luggage Created...')

```

finally:

```

cur.close()
db.close()

```

def PNR\_generator():

```

characters="ABCDEFGHIJKLMNOPQRSTUVWXYZ1234567890"
result=""
result+=random.sample(characters,5)
return result

```

def bill\_maker():

```

amount=0
db=x.connect(host='localhost',user='root',passwd='arnav',db='air')
cur=db.cursor()
cur.execute("select * from classes")
f1=cur.fetchall()
print("Choose the class you want to travel in")
for a in range(len(f1)):
    for b in range(3):
        print(f1[a][b],end="|")
    print("\n")
o1=int(input("Enter your choice: "))
q1="select price from classes where SNo='%d'"%(o1)
cur.execute(q1)
r1=cur.fetchone()
for g in r1:
    amount+=int(g)
print('-'*100)

```

```

cur.execute("select * from luggage")
f2=cur.fetchall()
print("Choose the weight of your luggage")
for c in range(len(f2)):
    for d in range(3):
        print(f2[c][d],end="|")

```

```

    print("\n")
    o2=int(input("Enter your choice: "))
    p2=int(input("Enter quantity: "))
    q2="select price from luggage where SNo='%d'"%(o2)
    cur.execute(q2)
    r2=cur.fetchone()
    for h in r2:
        amount+=int(g)*p2
    print('-'*100)

z1=input('Would you like to order something from the menu ? (Y/N): ').upper()
if z1=="Y":
    cur.execute("select * from menu")
    f3=cur.fetchall()
    for e in range(len(f3)):
        for f in range(3):
            print(f3[e][f],end="|")
        print("\n")
    while True:
        o3=int(input("Enter your choice: "))
        p3=int(input("Enter quantity: "))
        q3="select price from menu where SNo='%d'"%(o3)
        cur.execute(q3)
        r3=cur.fetchone()
        for h in r3:
            amount+=int(h)*p3
        print('-'*100)
        z2=input('Anything else ? (Y/N): ').upper()
        if z2=="Y":
            continue
        else:
            break

cur.close()
db.close()
return amount

```

```

def ticket_booking():
    db=x.connect(host='localhost',user='root',passwd='arnav',db='air')
    cur=db.cursor()
    d_date=input("Date of Departure(DD/MM/YYYY): ")
    r_date=input("Date of Return(DD/MM/YYYY): ")

```

```

origin=input("Origin: ").upper()
destination=input("Destination: ").upper()
y=int(input('Number of Passengers: '))
print('-'*100)
if y==1:
    for i in range(y):
        f_name=input("First Name: ").upper()
        l_name=input("Last Name: ").upper()
        gender=input("Gender(M/F): ").upper()
        ph_no=int(input("Phone Number: "))
        email_id=input("Email Id: ").upper()
        status="BOOKED"
        PNR=PNR_generator()
        print('-'*100)
        q="insert into data
values('%s','%s','%s','%d','%s','%s','%s','%s','%s','%s','%s','%s')"%
(f_name,l_name,gender,p
h_no,email_id, d_date,r_date,origin,destination,PNR,status)
        cur.execute(q)
        db.commit()
        print('-'*100)
        print("PNR Number - ",PNR)
        print('-'*100)
        result=bill_maker()
        charge=random.randrange(20000,90000,1000)
        print('-'*100)
        print("Base Charge - ",charge)
        print('-'*100)
        print("Surcharge - ",result)
        print('-'*100)
        print("Total Amount - ",result+charge)
        print('-'*100)

else:
    charge=random.randrange(20000,90000,1000)
    for j in range(y):
        print("Passenger",j+1)
        print("-"*100)
        f_name=input("First Name: ").upper()
        l_name=input("Last Name: ").upper()
        gender=input("Gender(M/F): ").upper()
        ph_no=int(input("Phone Number: "))
        email_id=input("Email Id: ").upper()
        status="BOOKED"
        PNR=PNR_generator()

```

```

        print('-'*100)
        q="insert into data
values('%s','%s','%s','%d','%s','%s','%s','%s','%s','%s','%s')"%(f_name,l_name,gender,p
h_no,email_id, d_date,r_date,origin,destination,PNR,status)
        cur.execute(q)
        db.commit()
        print('-'*100)
        print("PNR Number - ",PNR)
        print('-'*100)
        result=bill_maker()
        print('-'*100)
        print("Billing Amount - ",charge)
        print('-'*100)
        print("Surcharge - ",result)
        print('-'*100)
        print("Total - ",result+charge)
        print('-'*100)

print("Ticket(s) Booked")
print('-'*100)
cur.close()
db.close()

```

```

def ticket_status():
    db=x.connect(host='localhost',user='root',passwd='arnav',db='air')
    cur=db.cursor()
    cur.execute("select * from data")
    r=cur.fetchall()

```

```

while True:
    print("Choose a method to retrieve your ticket status")
    print("1. PNR")
    print("2. Email Id")
    print("3. Phone Number")
    print("4. Exit")

```

```

z=int(input("Enter your choice: "))
f=0

```

```

if z==1:
    a=input("Enter your PNR number: ").upper()
    for i in range(len(r)):
        if a == r[i][-2]:

```

```

        result=r[i][-1]
        f=f+1
        break
    else:
        f=0
    if f==1:
        print("Ticket Status -",result)
        print('*'*100)
        break

    if f==0:
        print("Not Found")
        print('*'*100)
        break

elif z==2:
    b=input("Enter your Email Id: ").upper()
    for j in range(len(r)):
        if b == r[j][4]:
            result=r[j][-1]
            f=f+1
            break
        else:
            f=0
    if f==1:
        print("Ticket Status -",result)
        print('*'*100)
        break

    if f==0:
        print("Not Found")
        print('*'*100)
        break

elif z==3:
    c=int(input("Enter your phone number: "))
    for k in range(len(r)):
        if c == r[k][3]:
            result=r[k][-1]
            f=f+1
            break
        else:
            f=0

```





```

        break
    else:
        f=0
    if f==1:
        print("Ticket CANCELLED")
        print('*'*100)
        break
    if f==0:
        print("Not Found")
        print('-'*100)
        break

elif z==2:
    b=input("Enter your Email Id: ").upper()
    for j in range(len(r)):
        if b == r[j][4]:
            q="update data set status='%s' where email_id='%s'"%( 'CANCELLED',b)
            r=cur.execute(q)
            db.commit()
            f=f+1
            break
        else:
            f=0
    if f==1:
        print("Ticket CANCELLED")
        print('*'*100)
        break
    if f==0:
        print("Not Found")
        print('-'*100)
        break

elif z==3:
    c=int(input("Enter your phone number: "))
    for k in range(len(r)):
        if c == r[k][3]:
            q="update data set status='%s' where ph_no='%d'"%( 'CANCELLED',c)
            r=cur.execute(q)
            db.commit()
            f=f+1
            break
        else:
            f=0
    if f==1:

```

```
        print("Ticket CANCELLED")
        print('*'*100)
        break
    if f==0:
        print("Not Found")
        print('*'*100)
        break
```

```
elif z==4:
    break
```

```
else:
    print("Please choose a valid option")
    print("-"*100)
```

```
cur.close()
db.close()
```

```
def main_menu():
    basic()
    print("Welcome to Central Airlines".center(100,'-'))
    while True:
        print("1. Book Ticket(s)")
        print("2. Check Ticket Status")
        print("3. Cancel Ticket")
        print("4. Exit")
        print('*'*100)

        n=int(input("Enter your choice: "))

        if n==1:
            ticket_booking()

        elif n==2:
            ticket_status()

        elif n==3:
            ticket_cancelling()

        elif n==4:
            print("Goodbye".center(100,"-"))
            break
```

```
else:  
    print("Please choose a valid option")  
    print('-'*100)
```

```
main_menu()
```

# Output

Database Created...

All Tables Created...

-----Welcome to Central Airlines-----

1. Book Ticket(s)
2. Check Ticket Status
3. Cancel Ticket
4. Exit

\*\*\*\*\*

Enter your choice: 1

Date of Departure(DD/MM/YYYY): 1/2/3

Date of Return(DD/MM/YYYY): 3/2/1

Origin: delhi

Destination: mumbai

Number of Passengers: 2

-----  
Passenger 1

-----  
First Name: qwe

Last Name: rty

Gender(M/F): m

Phone Number: 999

Email Id: qwe@email.com

-----  
PNR Number - E86OH

-----  
Choose the class you want to travel in

1|Economy|2000|

2|Business|4000|

3|First|6000|

Enter your choice: 2

-----  
Choose the weight of your luggage

1|15Kg|1000|

2|20Kg|2000|

3|25Kg|3000|

4|30Kg|4000|

Enter your choice: 2

Enter quantity: 2

-----  
Would you like to order something from the menu ? (Y/N): y

1|Tea|20|

2|Coffee|20|

3|Soft Drink|30|

4|Soup|30|

5|Sandwich|50|

6|Salad|30|

7|Noodles|100|

8|Wrap|80|

9|Pastry|100|

10|Ice Cream|50|

Enter your choice: 1

Enter quantity: 1

-----  
Anything else ? (Y/N): y

Enter your choice: 5

Enter quantity: 1

-----  
Anything else ? (Y/N): n

-----  
Billing Amount - 35000

-----  
Surcharge - 12070

-----  
Total - 47070

-----  
Passenger 2

-----  
First Name: asd  
Last Name: fgh  
Gender(M/F): f  
Phone Number: 555  
Email Id: asd@email.com  
-----

-----  
PNR Number - ZK2LG  
-----

Choose the class you want to travel in

1|Economy|2000|

2|Business|4000|

3|First|6000|

Enter your choice: 3  
-----

Choose the weight of your luggage

1|15Kg|1000|

2|20Kg|2000|

3|25Kg|3000|

4|30Kg|4000|

Enter your choice: 3

Enter quantity: 1  
-----

Would you like to order something from the menu ? (Y/N): n  
-----

Billing Amount - 35000  
-----

Surcharge - 12000  
-----

Total - 47000  
-----

Ticket(s) Booked

\*\*\*\*\*

1. Book Ticket(s)

2. Check Ticket Status
3. Cancel Ticket
4. Exit

\*\*\*\*\*

Enter your choice: 2

Choose a method to retrieve your ticket status

1. PNR
2. Email Id
3. Phone Number
4. Exit

Enter your choice: 1

Enter your PNR number: ZK2LG

Ticket Status - BOOKED

\*\*\*\*\*

1. Book Ticket(s)
2. Check Ticket Status
3. Cancel Ticket
4. Exit

\*\*\*\*\*

Enter your choice: 2

Choose a method to retrieve your ticket status

1. PNR
2. Email Id
3. Phone Number
4. Exit

Enter your choice: 2

Enter your Email Id: zxc@gmail.com

Not Found

-----

1. Book Ticket(s)
2. Check Ticket Status
3. Cancel Ticket
4. Exit

\*\*\*\*\*

Enter your choice: 3

Choose a method to cancel your ticket

1. PNR
2. Email Id
3. Phone Number
4. Exit

Enter your choice: 2

Enter your Email Id: qwe@email.com

Ticket CANCELLED

\*\*\*\*\*

1. Book Ticket(s)
2. Check Ticket Status
3. Cancel Ticket
4. Exit

\*\*\*\*\*

Enter your choice: 3

Choose a method to cancel your ticket

1. PNR
2. Email Id
3. Phone Number
4. Exit

Enter your choice: 3

Enter your phone number: 555

Ticket CANCELLED

\*\*\*\*\*

1. Book Ticket(s)
2. Check Ticket Status
3. Cancel Ticket
4. Exit

\*\*\*\*\*

Enter your choice: 2

Choose a method to retrieve your ticket status

1. PNR
2. Email Id
3. Phone Number
4. Exit

Enter your choice: 3

Enter your phone number: 999

Ticket Status - CANCELLED

\*\*\*\*\*

1. Book Ticket(s)
2. Check Ticket Status
3. Cancel Ticket
4. Exit

\*\*\*\*\*

Enter your choice: 4

-----Goodbye-----