
ST. XAVIER'S HIGH SCHOOL

KHANDAGIRI, BHUBANESWAR



COMPUTER SCIENCE PROJECT

[2022-2023]

BUS MANAGEMENT SYSTEM SUBMITTED BY:-

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ROLL NO: 2

SUB: COMPUTER SCIENCE (083)

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BUS MANAGEMENT SYSTEM

INTRODUCTION

The Bus Management system is a basically a database based project done with help of python language. This project is very useful for the people to book or cancel bus tickets by sitting at home with one cell phone in their hand. This project can be modified for various reservations.

OBJECTIVES OF THE PROJECT

The objective of this project is to let the students apply the programming knowledge into a real- world situation/problem and exposed the students how programming skills helps in developing a good software.

- Write programs utilising modern software tools.
- Apply object oriented programming principles effectively when developing small to medium sized projects.
- Write effective procedural code to solve small to medium sized problems.
- Students will demonstrate a breadth of knowledge in computer science, as exemplified in the areas of systems, theory and software development.
- Students will demonstrate ability to conduct a research or applied Computer

Science project, requiring writing and presentation skills which exemplify scholarly style in computer science.

PROPOSED SYSTEM

Today one cannot afford to rely on the fallible human beings of be really wants to stand against today's merciless competition where not to wise saying "to err is human" no longer valid, it's outdated to rationalise your mistake. So, to keep pace with time, to bring about the best result without malfunctioning and greater efficiency so to replace the unending heaps of files with a much sophisticated hard disk of the computer.

One has to use the data management software. Software has been an ascent in atomisation various organisations. Many software products working are now in markets, which have helped in making the organisations work easier and efficiently. Data management initially had to maintain a lot of ledgers and a lot of paper work has to be done but now software product on this organisation has made their work faster and easier. Now only this software has to be loaded on the computer and work can be done.

This prevents a lot of time and money. The work becomes fully automated and any information regarding the organisation can be obtained by clicking the button. Moreover, now it's an age of computers of and automating such an organisation gives the better look.

HARDWARE REQUIREMENTS

I. OPERATING SYSTEM : WINDOWS 10 / MACINTOSH AND ABOVE

II. PROCESSOR : 8-core CPU with 4 performance cores and 4 efficiency cores

III.MOTHERBOARD : Macbook Air

IV. RAM : 8gb ram

V. Hard disk : SATA 40 GB OR ABOVE

VI. CD/DVD r/w multi drive combo: (If back up required)/N.A

VII. FLOPPY DRIVE 1.44 MB : (If Backup required)

VIII. MONITOR 14.1 or 15 -17 inch

IX. Key board and mouse

X. Printer : (if print is required – [Hard copy])

SOFTWARE REQUIREMENTS

- Windows OS
- Mac OS
- Linux
- mysql connector module
- Python

SOURCE CODE

```
import mysql.connector as mscl
import random
import time
obj = mscl.connect(host="localhost", user="root", passwd="system",
database="BusTravels")
c=obj.cursor()

def PostSignIn():
    maincheckpoint=True
    while maincheckpoint:
        print(''
            -----
                Welcome to the Menu.
            Please choose your desired task operation -
                1. Create New Booking
                2. Check Status of Existing Booking
                3. Exit

            Choose 1/2/3      ''')
        obj = mscl.connect(host="localhost", user="root", passwd="system",
database="BusTravels")
        MenuInp = int(input("Your choice: "))
        if MenuInp ==1:
            No=int(input("Enter the number of Tickets: "))
            TicketIDDict = {}
            print("=====")
            Dest = input("Choose your Destination: ")
            DestinationDict = {}
            if Dest.lower() not in DestinationDict:
                DestinationDict[Dest.lower()] = Dest
            ID = Dest[:2] + str(random.randint(1000,9999))
            TicketIDDict[ID] = "Already Done"
            print("=====")
            print(''
                Seat-Type - -
                1. A/C Sleeper
                2. A/C Seater
                3. Non-A/C Sleeper
```

4. Non-A/C Seater

```
        Choose 1/2/3/4''')
Type = int(input("Choose Seat-Type: "))
TypeDict = {1:"AS01", 2:"AS02", 3:"NS01", 4:"NS02"}
cd=obj.cursor()
sql="SELECT Tickets FROM PriceList where UniqueCode= %s"
var=(TypeDict[Type])
cd.execute(sql,(var,))
Di=cd.fetchall()
print("Checking availability of tickets")
time.sleep(2)
TNo = Di[0][0]

if TNo>= No:
    print("Tickets are available !! Proceeding to the Registration...")
    print('-----')

    TicketInfo={}
    for i in range(No):
        #Passenger Information
        Name = input("Passenger's Name: ")
        Age = int(input("Age :"))
        Gender = input("Gender (M/F): ")
        c=obj.cursor()
        while ID in TicketIDDict:
            ID = Dest[:2] + str(random.randint(1000,9999))

        TicketIDDict[ID] = "Already Done"
        TicketInfo[i]=ID
        c.execute("SELECT NOW()")
        Date=c.fetchall()
        sql="INSERT INTO PassengersInfo (PSName, Age, Gen, TicketID,
DateOfBooking, Dest, UniqueCode) VALUES (%s, %s, %s, %s, %s, %s, %s)"
        val = (Name, Age, Gender, ID, Date[0][0], Dest, TypeDict[Type])
        c.execute(sql, val)

    c=obj.cursor()
    sql="SELECT Price from PriceList where UniqueCode = %s"
    var = (TypeDict[Type])
    c.execute(sql,(var,))
    D=c.fetchall()
    A = D[0][0]
    print("The total price is", No*A)
```

```

Confirm = input("Do you wish to continue ? (Y/N): ")

if Confirm=='Y':
    c=obj.cursor()
    sql="UPDATE PriceList SET Tickets=Tickets-(%s) WHERE UniqueCode=
%s"

    var = (No, TypeDict[Type])
    c.execute(sql,var)
    obj.commit()
    print("Processing transaction...")
    time.sleep(2)
    print("Your ticket has been booked successfully !")
    print('Your Ticket Unique IDS allotted are:')
    for i in range(No):
        print(TicketInfo[i])
        time.sleep(1)
elif TNo<No:
    print("Tickets are not available.")
    print("Tickets left in stock: ", Di[0][0])
    time.sleep(1)
else:
    print("Some unknown error occurred...")

elif MenuInp==2:
    print('''
        1. Generate Ticket Information
        2. Cancel Booking''')
    MI2 = int(input("Your choice: "))
    if MI2 ==1:

        checkpoint=True

        while checkpoint:
            UID = input("Enter your Ticket Unique ID: ")
            c=obj.cursor()
            sql="SELECT * from PassengersInfo where TicketID = %s"
            var = (UID)
            c.execute(sql,(var,))
            De=c.fetchall()
            UIDDict = {}
            c.execute("SELECT TicketID, UniqueCode from PassengersInfo")
            D = c.fetchall()
            for i in D:
                UIDDict[i[0]]=i[1]
            if UID in UIDDict:
                print(f'''
-----

```



```

        Date of Booking: {De[0][4]}

        Name:          {De[0][0]}
        Age:           {De[0][1]}
        Gender:        {De[0][2]}
        Ticket ID:     {De[0][3]}

    -----

        time.sleep(1)
        checkpoint=False
    else:
        print("This Ticket ID doesn't exist. Kindly re-check the
entered Ticket ID.")

elif MI2==2:
    UID = input("Enter your Ticket Unique ID: ")
    ans= input("Confirm the deletion of your ticket ? (Y/N): ")
    if ans.lower()=='y':
        print("Deleting your ticket...")
        c=obj.cursor()
        sql="SELECT UniqueCode FROM PassengersInfo WHERE TicketID=%s"
        var = (UID)
        c.execute(sql,(var,))
        UnID=c.fetchall()

        time.sleep(1)
        sql1="UPDATE PriceList SET Tickets=Tickets+1 WHERE UniqueCode= %s"
        var1 = (UnID[0][0])
        c.execute(sql1,(var1,))
        sql2="DELETE FROM PassengersInfo where TicketID = %s"
        var2 = (UID)
        c.execute(sql2,(var2,))
        print("Your ticket has been deleted successfully...")
        obj.commit()
    else:
        print("Your cancellation was unsuccessful.")
elif MenuInp==3:
    print("Thanks for using our Service.")
    time.sleep(1)
    print("Have a Nice Day !!")
    maincheckpoint=False
else:
    print("An error occured.")

print('')
-----

Welcome to BusTravels Agency

```

```

-----'''')
print("Thanks for Choosing our Service !!")

print('''
    1. Login [Existing User]
    2. Sign-Up [New User]

    Choose 1/2''')

LSD = int(input("Your Choice: "))
DDict = {}
c.execute("SELECT PhoneNo, Password from LoginCreds")
D = c.fetchall()

for i in D:
    DDict[i[0]]=i[1]
if LSD==2:
    PhoneNo = int(input("Enter your Phone Number :"))
    Pass = input("Enter Password : ")
    RePass= input("Re-enter your Password : ")

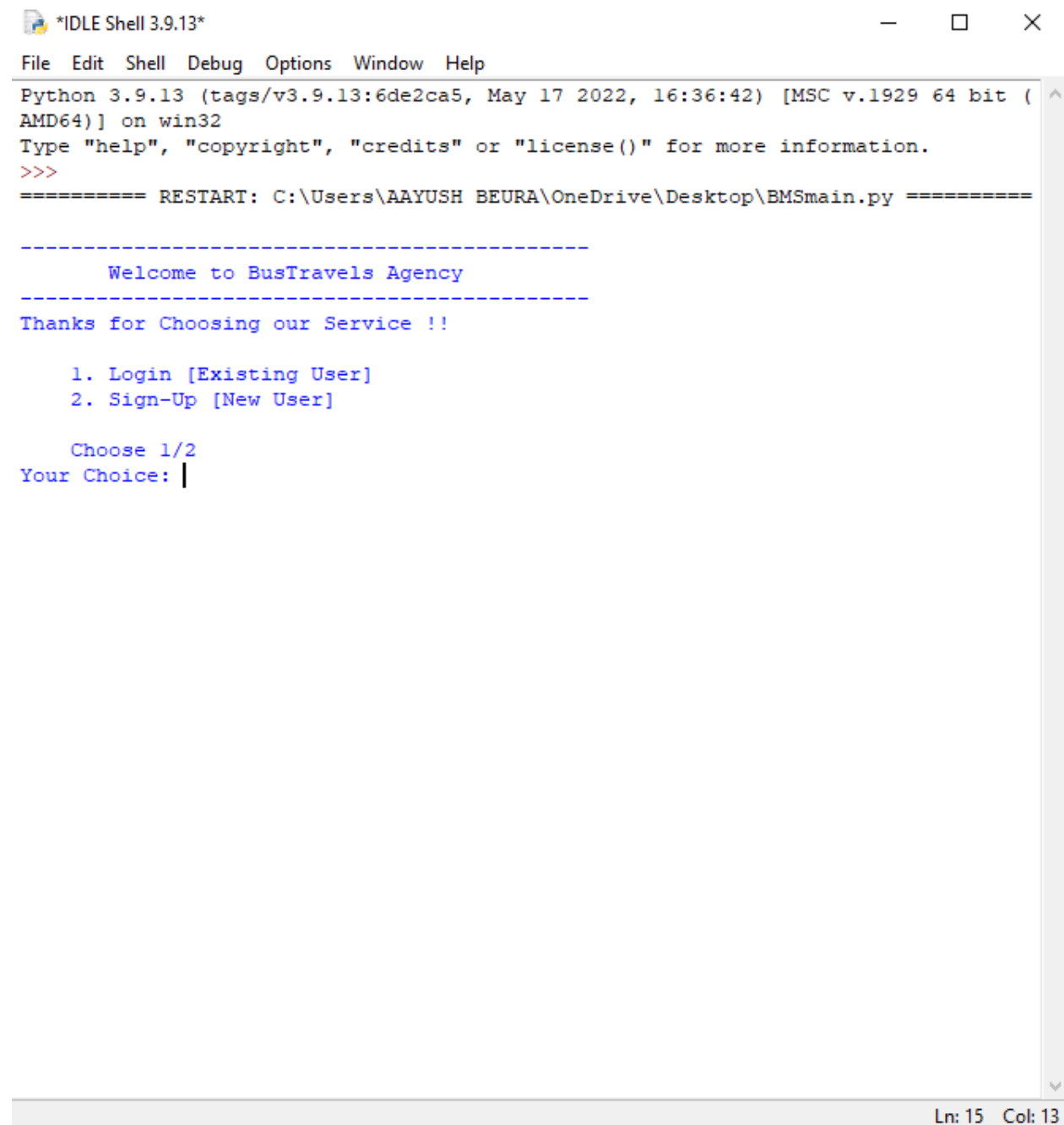
    # print(type(D))
    if PhoneNo in DDict:

        print("This number has already been registered. Kindly Login using your
credentials.")
        exit()
    elif Pass == RePass:
        sql="INSERT INTO LoginCreds (PhoneNo, Password) VALUES (%s, %s)"
        DDict[PhoneNo]=Pass
        val = (PhoneNo, Pass)
        c.execute(sql, val)
        obj.commit()
        print("Your account has been successfully registered. Redirecting...")
        time.sleep(1)
        PostSignIn()
    else:
        print("Please re-enter the same password.")
elif LSD==1:
    PhoneNo = int(input("Enter your Phone Number :"))
    checkpoint=True
    while checkpoint:
        Pass = input("Enter Password : ")
        try:
            if DDict[PhoneNo]==Pass:
                print("Login verified ! Redirecting...")

```

```
        checkpoint=False
        time.sleep(1)
        PostSignIn()
    else:
        print("Your Password is wrong ! Re-enter your Password")
        Opt = input("Do you want to re-enter your password ? (Y/N): ")
        if Opt=="N":
            checkpoint=False
            exit()
    except:
        print("Your phone number has not been registered. Please re-run the
program.")
        checkpoint=False
        exit()
else:
    print("Choose one of the given options. THANK YOU !")
    time.sleep(1)
    exit()
```

OUTPUTS:-



```
*IDLE Shell 3.9.13*
File Edit Shell Debug Options Window Help
Python 3.9.13 (tags/v3.9.13:6de2ca5, May 17 2022, 16:36:42) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\AAYUSH BEURA\OneDrive\Desktop\BMSmain.py =====

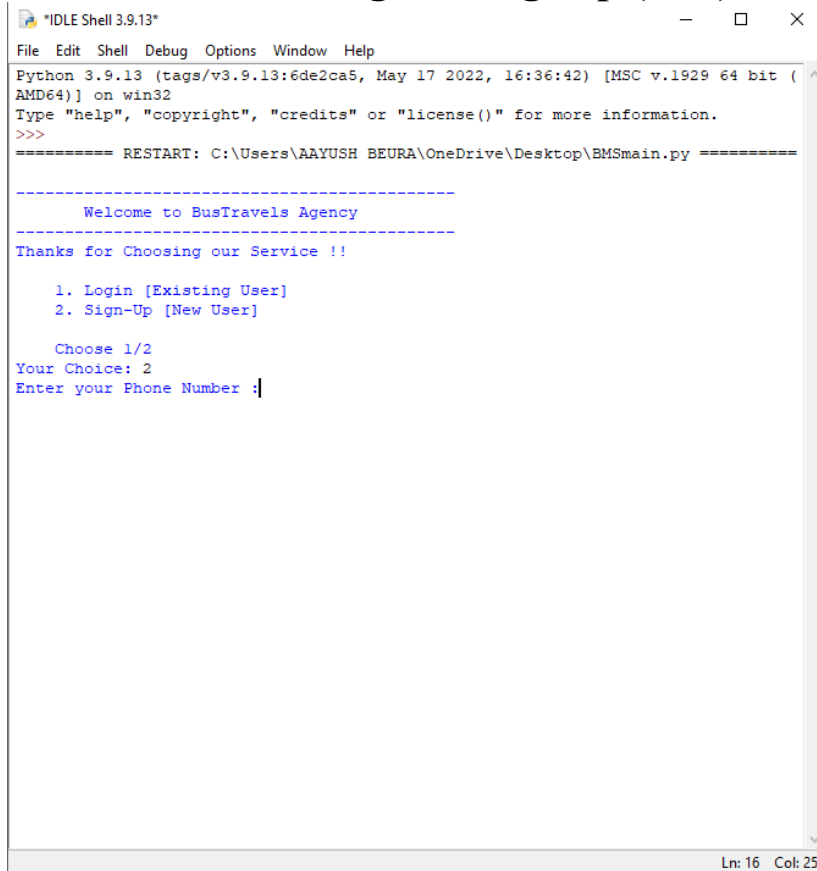
-----
Welcome to BusTravels Agency
-----
Thanks for Choosing our Service !!

1. Login [Existing User]
2. Sign-Up [New User]

Choose 1/2
Your Choice: |
```

Ln: 15 Col: 13

CASE 1 : When we go for SignUp (ie. 2)



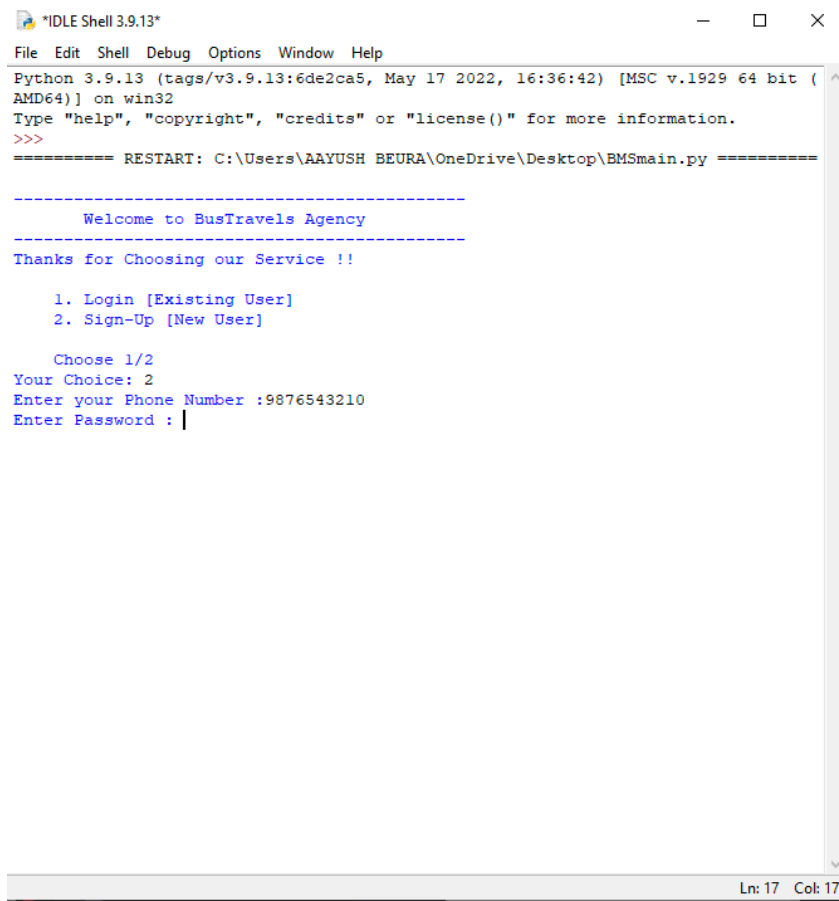
```
*IDLE Shell 3.9.13*
File Edit Shell Debug Options Window Help
Python 3.9.13 (tags/v3.9.13:6de2ca5, May 17 2022, 16:36:42) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\AAYUSH BEURA\OneDrive\Desktop\BMSmain.py =====

-----
Welcome to BusTravels Agency
-----
Thanks for Choosing our Service !!

1. Login [Existing User]
2. Sign-Up [New User]

Choose 1/2
Your Choice: 2
Enter your Phone Number :|
```

After inputting some arbitrary valid values:-



```
*IDLE Shell 3.9.13*
File Edit Shell Debug Options Window Help
Python 3.9.13 (tags/v3.9.13:6de2ca5, May 17 2022, 16:36:42) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\AAYUSH BEURA\OneDrive\Desktop\BMSmain.py =====

-----
Welcome to BusTravels Agency
-----
Thanks for Choosing our Service !!

1. Login [Existing User]
2. Sign-Up [New User]

Choose 1/2
Your Choice: 2
Enter your Phone Number :9876543210
Enter Password :|
```

```
"IDLE Shell 3.9.13"
File Edit Shell Debug Options Window Help
Python 3.9.13 (tags/v3.9.13:6de2ca5, May 17 2022, 16:36:42) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\AAYUSH BEURA\OneDrive\Desktop\BMSmain.py =====

-----
Welcome to BusTravels Agency
-----
Thanks for Choosing our Service !!

1. Login [Existing User]
2. Sign-Up [New User]

Choose 1/2
Your Choice: 2
Enter your Phone Number :9876543210
Enter Password : admin123
```

Ln: 17 Col: 25

```
"IDLE Shell 3.9.13"
File Edit Shell Debug Options Window Help
Python 3.9.13 (tags/v3.9.13:6de2ca5, May 17 2022, 16:36:42) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\AAYUSH BEURA\OneDrive\Desktop\BMSmain.py =====

-----
Welcome to BusTravels Agency
-----
Thanks for Choosing our Service !!

1. Login [Existing User]
2. Sign-Up [New User]

Choose 1/2
Your Choice: 2
Enter your Phone Number :9876543210
Enter Password : admin123
Re-enter your Password : admin123
```

Ln: 18 Col: 33

```

*IDLE Shell 3.9.13*
File Edit Shell Debug Options Window Help
Python 3.9.13 (tags/v3.9.13:6de2ca5, May 17 2022, 16:36:42) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\AAYUSH BEURA\OneDrive\Desktop\BMSmain.py =====

-----
Welcome to BusTravels Agency
-----
Thanks for Choosing our Service !!

1. Login [Existing User]
2. Sign-Up [New User]

Choose 1/2
Your Choice: 2
Enter your Phone Number :9876543210
Enter Password : admin123
Re-enter your Password : admin123
Your account has been successfully registered. Redirecting...
|

```

Menu of the Program:-

```

*IDLE Shell 3.9.13*
File Edit Shell Debug Options Window Help
Python 3.9.13 (tags/v3.9.13:6de2ca5, May 17 2022, 16:36:42) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\AAYUSH BEURA\OneDrive\Desktop\BMSmain.py =====

-----
Welcome to BusTravels Agency
-----
Thanks for Choosing our Service !!

1. Login [Existing User]
2. Sign-Up [New User]

Choose 1/2
Your Choice: 2
Enter your Phone Number :9876543210
Enter Password : admin123
Re-enter your Password : admin123
Your account has been successfully registered. Redirecting...

-----
Welcome to the Menu.
Please choose your desired task operation -
1. Create New Booking
2. Check Status of Existing Booking
3. Exit

Choose 1/2/3
Your choice:

```

Ln: 29 Col: 13

Case 1(a) : Create a new booking

```
"IDLE Shell 3.9.13"
File Edit Shell Debug Options Window Help
Python 3.9.13 (tags/v3.9.13:6de2ca5, May 17 2022, 16:36:42) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\AAYUSH BEURA\OneDrive\Desktop\BMSmain.py =====

-----
Welcome to BusTravels Agency
-----
Thanks for Choosing our Service !!

1. Login [Existing User]
2. Sign-Up [New User]

Choose 1/2
Your Choice: 2
Enter your Phone Number :9876543210
Enter Password : admin123
Re-enter your Password : admin123
Your account has been successfully registered. Redirecting...

-----
Welcome to the Menu.
Please choose your desired task operation -
1. Create New Booking
2. Check Status of Existing Booking
3. Exit

Choose 1/2/3
Your choice: 1
Enter the number of Tickets: |

Ln: 30 Col: 29
```

```
"IDLE Shell 3.9.13"
File Edit Shell Debug Options Window Help
Python 3.9.13 (tags/v3.9.13:6de2ca5, May 17 2022, 16:36:42) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\AAYUSH BEURA\OneDrive\Desktop\BMSmain.py =====

-----
Welcome to BusTravels Agency
-----
Thanks for Choosing our Service !!

1. Login [Existing User]
2. Sign-Up [New User]

Choose 1/2
Your Choice: 2
Enter your Phone Number :9876543210
Enter Password : admin123
Re-enter your Password : admin123
Your account has been successfully registered. Redirecting...

-----
Welcome to the Menu.
Please choose your desired task operation -
1. Create New Booking
2. Check Status of Existing Booking
3. Exit

Choose 1/2/3
Your choice: 1
Enter the number of Tickets: 2
=====
Choose your Destination: |

Ln: 32 Col: 25
```



```
*IDLE Shell 3.9.13*
File Edit Shell Debug Options Window Help
>>>
===== RESTART: C:\Users\AAYUSH BEURA\OneDrive\Desktop\BMSmain.py =====

-----
Welcome to BusTravels Agency
-----
Thanks for Choosing our Service !!

1. Login [Existing User]
2. Sign-Up [New User]

Choose 1/2
Your Choice: 2
Enter your Phone Number :9876543210
Enter Password : admin123
Re-enter your Password : admin123
Your account has been successfully registered. Redirecting...

-----
Welcome to the Menu.
Please choose your desired task operation -
1. Create New Booking
2. Check Status of Existing Booking
3. Exit

Choose 1/2/3
Your choice: 1
Enter the number of Tickets: 2
=====
Choose your Destination: MUMBAI
=====

Seat-Type - -
1. A/C Sleeper
2. A/C Seater
3. Non-A/C Sleeper
4. Non-A/C Seater

Choose 1/2/3/4
Choose Seat-Type: |
Ln: 42 Col: 18
```

The program checks the backend for the no. of tickets available:-

```
*IDLE Shell 3.9.13*
File Edit Shell Debug Options Window Help

-----
Welcome to BusTravels Agency
-----
Thanks for Choosing our Service !!

1. Login [Existing User]
2. Sign-Up [New User]

Choose 1/2
Your Choice: 2
Enter your Phone Number :9876543210
Enter Password : admin123
Re-enter your Password : admin123
Your account has been successfully registered. Redirecting...

-----
Welcome to the Menu.
Please choose your desired task operation -
1. Create New Booking
2. Check Status of Existing Booking
3. Exit

Choose 1/2/3
Your choice: 1
Enter the number of Tickets: 2
=====
Choose your Destination: MUMBAI
=====

Seat-Type - -
1. A/C Sleeper
2. A/C Seater
3. Non-A/C Sleeper
4. Non-A/C Seater

Choose 1/2/3/4
Choose Seat-Type: 2
Checking availability of tickets
|
Ln: 44 Col: 0
```

If the tickets are available, it proceeds for the booking procedure :-

```
File Edit Shell Debug Options Window Help
Welcome to BusTravels Agency
-----
Thanks for Choosing our Service !!

1. Login [Existing User]
2. Sign-Up [New User]

Choose 1/2
Your Choice: 2
Enter your Phone Number :9876543210
Enter Password : admin123
Re-enter your Password : admin123
Your account has been successfully registered. Redirecting...

-----
Welcome to the Menu.
Please choose your desired task operation -
1. Create New Booking
2. Check Status of Existing Booking
3. Exit

Choose 1/2/3
Your choice: 1
Enter the number of Tickets: 2
=====
Choose your Destination: MUMBAI
=====

Seat-Type - -
1. A/C Sleeper
2. A/C Seater
3. Non-A/C Sleeper
4. Non-A/C Seater

Choose 1/2/3/4
Choose Seat-Type: 2
Checking availability of tickets
Tickets are available !! Proceeding to the Registration...
-----
Passenger's Name: |

*IDLE Shell 3.9.13*
File Edit Shell Debug Options Window Help
2. Sign-Up [New User]

Choose 1/2
Your Choice: 2
Enter your Phone Number :9876543210
Enter Password : admin123
Re-enter your Password : admin123
Your account has been successfully registered. Redirecting...

-----
Welcome to the Menu.
Please choose your desired task operation -
1. Create New Booking
2. Check Status of Existing Booking
3. Exit

Choose 1/2/3
Your choice: 1
Enter the number of Tickets: 2
=====
Choose your Destination: MUMBAI
=====

Seat-Type - -
1. A/C Sleeper
2. A/C Seater
3. Non-A/C Sleeper
4. Non-A/C Seater

Choose 1/2/3/4
Choose Seat-Type: 2
Checking availability of tickets
Tickets are available !! Proceeding to the Registration...
-----
Passenger's Name: Ankush Gupta
Age :37
Gender (M/F): M
Passenger's Name: Amit Mishra
Age :35
Gender (M/F): M

Ln: 51 Col: 15
```

Confirmation of ticket

```
*IDLE Shell 3.9.13*
File Edit Shell Debug Options Window Help

Choose 1/2
Your Choice: 2
Enter your Phone Number :9876543210
Enter Password : admin123
Re-enter your Password : admin123
Your account has been successfully registered. Redirecting...

-----
                Welcome to the Menu.
Please choose your desired task operation -
    1. Create New Booking
    2. Check Status of Existing Booking
    3. Exit

Choose 1/2/3
Your choice: 1
Enter the number of Tickets: 2
=====
Choose your Destination: MUMBAI
=====

Seat-Type - -
    1. A/C Sleeper
    2. A/C Seater
    3. Non-A/C Sleeper
    4. Non-A/C Seater

Choose 1/2/3/4
Choose Seat-Type: 2
Checking availability of tickets
Tickets are available !! Proceeding to the Registration...
-----
Passenger's Name: Ankush Gupta
Age :37
Gender (M/F): M
Passenger's Name: Amit Mishra
Age :35
Gender (M/F): M
The total price is 700
Do you wish to continue ? (Y/N): |

Ln: 53 Col: 33
```

```
*IDLE Shell 3.9.13*
File Edit Shell Debug Options Window Help

Enter your Phone Number :9876543210
Enter Password : admin123
Re-enter your Password : admin123
Your account has been successfully registered. Redirecting...

-----
                Welcome to the Menu.
Please choose your desired task operation -
    1. Create New Booking
    2. Check Status of Existing Booking
    3. Exit

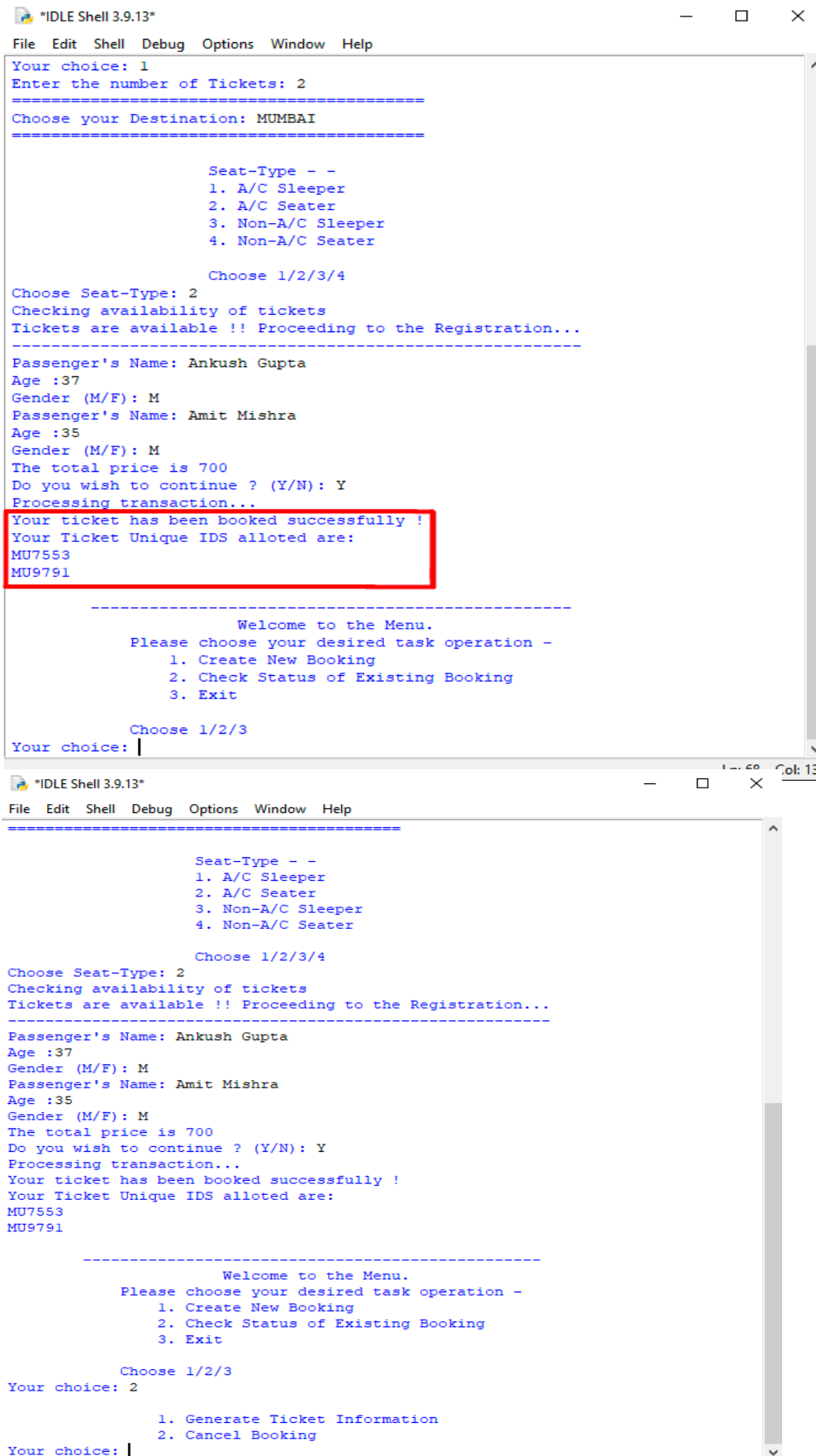
Choose 1/2/3
Your choice: 1
Enter the number of Tickets: 2
=====
Choose your Destination: MUMBAI
=====

Seat-Type - -
    1. A/C Sleeper
    2. A/C Seater
    3. Non-A/C Sleeper
    4. Non-A/C Seater

Choose 1/2/3/4
Choose Seat-Type: 2
Checking availability of tickets
Tickets are available !! Proceeding to the Registration...
-----
Passenger's Name: Ankush Gupta
Age :37
Gender (M/F): M
Passenger's Name: Amit Mishra
Age :35
Gender (M/F): M
The total price is 700
Do you wish to continue ? (Y/N): Y
Processing transaction...

Ln: 55 Col: 0
```

Unique Ticket IDs are allotted for each passenger. They can be used to generate the ticket or cancel the ticket:-



```
*IDLE Shell 3.9.13*
File Edit Shell Debug Options Window Help

Your choice: 1
Enter the number of Tickets: 2
=====
Choose your Destination: MUMBAI
=====

Seat-Type - -
1. A/C Sleeper
2. A/C Seater
3. Non-A/C Sleeper
4. Non-A/C Seater

Choose 1/2/3/4
Choose Seat-Type: 2
Checking availability of tickets
Tickets are available !! Proceeding to the Registration...
-----
Passenger's Name: Ankush Gupta
Age :37
Gender (M/F): M
Passenger's Name: Amit Mishra
Age :35
Gender (M/F): M
The total price is 700
Do you wish to continue ? (Y/N): Y
Processing transaction...
Your ticket has been booked successfully !
Your Ticket Unique IDS allotted are:
MU7553
MU9791

-----
Welcome to the Menu.
Please choose your desired task operation -
1. Create New Booking
2. Check Status of Existing Booking
3. Exit

Choose 1/2/3
Your choice: |

-----
Seat-Type - -
1. A/C Sleeper
2. A/C Seater
3. Non-A/C Sleeper
4. Non-A/C Seater

Choose 1/2/3/4
Choose Seat-Type: 2
Checking availability of tickets
Tickets are available !! Proceeding to the Registration...
-----
Passenger's Name: Ankush Gupta
Age :37
Gender (M/F): M
Passenger's Name: Amit Mishra
Age :35
Gender (M/F): M
The total price is 700
Do you wish to continue ? (Y/N): Y
Processing transaction...
Your ticket has been booked successfully !
Your Ticket Unique IDS allotted are:
MU7553
MU9791

-----
Welcome to the Menu.
Please choose your desired task operation -
1. Create New Booking
2. Check Status of Existing Booking
3. Exit

Choose 1/2/3
Your choice: 2

1. Generate Ticket Information
2. Cancel Booking

Your choice: |
```

```
*IDLE Shell 3.9.13*
File Edit Shell Debug Options Window Help

Seat-Type - -
1. A/C Sleeper
2. A/C Seater
3. Non-A/C Sleeper
4. Non-A/C Seater

Choose 1/2/3/4
Choose Seat-Type: 2
Checking availability of tickets
Tickets are available !! Proceeding to the Registration...
-----
Passenger's Name: Ankush Gupta
Age :37
Gender (M/F): M
Passenger's Name: Amit Mishra
Age :35
Gender (M/F): M
The total price is 700
Do you wish to continue ? (Y/N): Y
Processing transaction...
Your ticket has been booked successfully !
Your Ticket Unique IDS allotted are:
MU7553
MU9791

-----
Welcome to the Menu.
Please choose your desired task operation -
1. Create New Booking
2. Check Status of Existing Booking
3. Exit

Choose 1/2/3
Your choice: 2

1. Generate Ticket Information
2. Cancel Booking

Your choice: 1
Enter your Ticket Unique ID: |
```

Ln: 73 Col: 29

Generated Tickets:-

```
*IDLE Shell 3.9.13*
File Edit Shell Debug Options Window Help

Do you wish to continue ? (Y/N): Y
Processing transaction...
Your ticket has been booked successfully !
Your Ticket Unique IDS allotted are:
MU7553
MU9791

-----
Welcome to the Menu.
Please choose your desired task operation -
1. Create New Booking
2. Check Status of Existing Booking
3. Exit

Choose 1/2/3
Your choice: 2

1. Generate Ticket Information
2. Cancel Booking

Your choice: 1
Enter your Ticket Unique ID: MU7553

-----
Date of Booking: 2022-11-27 10:18:56

Name:      Ankush Gupta
Age:       37
Gender:    M
Ticket ID: MU7553

-----
Welcome to the Menu.
Please choose your desired task operation -
1. Create New Booking
2. Check Status of Existing Booking
3. Exit

Choose 1/2/3
Your choice: |
```

Ln: 92 Col: 13

Ankush Gupta	37	M	MU7553	2022-11-27 10:18:56	MUMBAI	AS02
Amit Mishra	35	M	MU9791	2022-11-27 10:19:25	MUMBAI	AS02

While cancellation of ticket, the returned ticket must also be added back to the backend:-

```
mysql> select * from pricelist;
```

SlNo	Type	UniqueCode	Price	Tickets
1	AC Sleeper	AS01	500	1
3	AC Seater	AS02	350	24
2	Non-AC Sleeper	NS01	300	31
4	Non-AC Seater	NS02	150	45

```
4 rows in set (0.01 sec)
```

```
*IDLE Shell 3.9.13*
File Edit Shell Debug Options Window Help
MU9791

-----
                Welcome to the Menu.
    Please choose your desired task operation -
        1. Create New Booking
        2. Check Status of Existing Booking
        3. Exit

    Choose 1/2/3
Your choice: 2

        1. Generate Ticket Information
        2. Cancel Booking
Your choice: 1
Enter your Ticket Unique ID: MU7553

-----
    Date of Booking: 2022-11-27 10:18:56

    Name:      Ankush Gupta
    Age:        37
    Gender:     M
    Ticket ID:  MU7553
-----

-----
                Welcome to the Menu.
    Please choose your desired task operation -
        1. Create New Booking
        2. Check Status of Existing Booking
        3. Exit

    Choose 1/2/3
Your choice: 2

        1. Generate Ticket Information
        2. Cancel Booking
Your choice: 2
Enter your Ticket Unique ID: MU7553
```

Ln: 97 Col: 35

Cancellation of ticket:-

```
*IDLE Shell 3.9.13*
File Edit Shell Debug Options Window Help

-----
Welcome to the Menu.
Please choose your desired task operation -
1. Create New Booking
2. Check Status of Existing Booking
3. Exit

Choose 1/2/3
Your choice: 2

1. Generate Ticket Information
2. Cancel Booking
Your choice: 1
Enter your Ticket Unique ID: MU7553

-----
Date of Booking: 2022-11-27 10:18:56

Name:      Ankush Gupta
Age:       37
Gender:    M
Ticket ID: MU7553
-----

Welcome to the Menu.
Please choose your desired task operation -
1. Create New Booking
2. Check Status of Existing Booking
3. Exit

Choose 1/2/3
Your choice: 2

1. Generate Ticket Information
2. Cancel Booking
Your choice: 2
Enter your Ticket Unique ID: MU7553
Confirm the deletion of your ticket ? (Y/N): |

Ln: 98 Col: 45
```

```
*IDLE Shell 3.9.13*
File Edit Shell Debug Options Window Help

-----
Welcome to the Menu.
Please choose your desired task operation -
1. Create New Booking
2. Check Status of Existing Booking
3. Exit

Choose 1/2/3
Your choice: 2

1. Generate Ticket Information
2. Cancel Booking
Your choice: 1
Enter your Ticket Unique ID: MU7553

-----
Date of Booking: 2022-11-27 10:18:56

Name:      Ankush Gupta
Age:       37
Gender:    M
Ticket ID: MU7553
-----

Welcome to the Menu.
Please choose your desired task operation -
1. Create New Booking
2. Check Status of Existing Booking
3. Exit

Choose 1/2/3
Your choice: 2

1. Generate Ticket Information
2. Cancel Booking
Your choice: 2
Enter your Ticket Unique ID: MU7553
Confirm the deletion of your ticket ? (Y/N): Y
Deleting your ticket...

Ln: 100 Col: 0
```

```
*IDLE Shell 3.9.13*
File Edit Shell Debug Options Window Help

2. Cancel Booking
Your choice: 1
Enter your Ticket Unique ID: MU7553

-----
Date of Booking: 2022-11-27 10:18:56

Name:      Ankush Gupta
Age:       37
Gender:    M
Ticket ID: MU7553
-----

-----
Welcome to the Menu.
Please choose your desired task operation -
1. Create New Booking
2. Check Status of Existing Booking
3. Exit

Choose 1/2/3
Your choice: 2

1. Generate Ticket Information
2. Cancel Booking
Your choice: 2
Enter your Ticket Unique ID: MU7553
Confirm the deletion of your ticket ? (Y/N): Y
Deleting your ticket...
Your ticket has been deleted successfully...

-----
Welcome to the Menu.
Please choose your desired task operation -
1. Create New Booking
2. Check Status of Existing Booking
3. Exit

Choose 1/2/3
Your choice: |
```

Ln: 110 Col: 13

The ticket was added back to the backend:-

```
mysql> select * from pricelist;
+-----+-----+-----+-----+-----+
| SlNo | Type           | UniqueCode | Price | Tickets |
+-----+-----+-----+-----+-----+
| 1    | AC Sleeper     | AS01       | 500   | 1       |
| 3    | AC Seater      | AS02       | 350   | 25      |
| 2    | Non-AC Sleeper | NS01       | 300   | 31      |
| 4    | Non-AC Seater  | NS02       | 150   | 45      |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

```
| Amit Mishra | 35 | M | MU9791 | 2022-11-27 10:19:25 | MUMBAI | AS02 |
```


Tickets out of stock:-

```
*IDLE Shell 3.9.13*
File Edit Shell Debug Options Window Help

-----
Welcome to the Menu.
Please choose your desired task operation -
1. Create New Booking
2. Check Status of Existing Booking
3. Exit

Choose 1/2/3
Your choice: 2

1. Generate Ticket Information
2. Cancel Booking
Your choice: 2
Enter your Ticket Unique ID: MU7553
Confirm the deletion of your ticket ? (Y/N): Y
Deleting your ticket...
Your ticket has been deleted successfully...

-----
Welcome to the Menu.
Please choose your desired task operation -
1. Create New Booking
2. Check Status of Existing Booking
3. Exit

Choose 1/2/3
Your choice: 1
Enter the number of Tickets: 2
=====
Choose your Destination: KOLKATA
=====

Seat-Type - -
1. A/C Sleeper
2. A/C Seater
3. Non-A/C Sleeper
4. Non-A/C Seater

Choose 1/2/3/4
Choose Seat-Type: 1
Ln: 123 Col: 19
```

```
*IDLE Shell 3.9.13*
File Edit Shell Debug Options Window Help

Please choose your desired task operation -
1. Create New Booking
2. Check Status of Existing Booking
3. Exit

Choose 1/2/3
Your choice: 2

1. Generate Ticket Information
2. Cancel Booking
Your choice: 2
Enter your Ticket Unique ID: MU7553
Confirm the deletion of your ticket ? (Y/N): Y
Deleting your ticket...
Your ticket has been deleted successfully...

-----
Welcome to the Menu.
Please choose your desired task operation -
1. Create New Booking
2. Check Status of Existing Booking
3. Exit

Choose 1/2/3
Your choice: 1
Enter the number of Tickets: 2
=====
Choose your Destination: KOLKATA
=====

Seat-Type - -
1. A/C Sleeper
2. A/C Seater
3. Non-A/C Sleeper
4. Non-A/C Seater

Choose 1/2/3/4
Choose Seat-Type: 1
Checking availability of tickets
Ln: 125 Col: 0
```

It displays the maximum. no of tickets that can be booked from a specific category :-

```
*IDLE Shell 3.9.13*
File Edit Shell Debug Options Window Help
Enter your Ticket Unique ID: MU7553
Confirm the deletion of your ticket ? (Y/N): Y
Deleting your ticket...
Your ticket has been deleted successfully...

-----
                Welcome to the Menu.
Please choose your desired task operation -
1. Create New Booking
2. Check Status of Existing Booking
3. Exit

Choose 1/2/3
Your choice: 1
Enter the number of Tickets: 2
=====
Choose your Destination: KOLKATA
=====

Seat-Type - -
1. A/C Sleeper
2. A/C Seater
3. Non-A/C Sleeper
4. Non-A/C Seater

Choose 1/2/3/4
Choose Seat-Type: 1
Checking availability of tickets
Tickets are not available.
Tickets left in stock: 1

-----
                Welcome to the Menu.
Please choose your desired task operation -
1. Create New Booking
2. Check Status of Existing Booking
3. Exit

Choose 1/2/3
Your choice: |
```

Ln: 136 Col: 13

```
IDLE Shell 3.9.13
File Edit Shell Debug Options Window Help
Your ticket has been deleted successfully...

-----
                Welcome to the Menu.
Please choose your desired task operation -
1. Create New Booking
2. Check Status of Existing Booking
3. Exit

Choose 1/2/3
Your choice: 1
Enter the number of Tickets: 2
=====
Choose your Destination: KOLKATA
=====

Seat-Type - -
1. A/C Sleeper
2. A/C Seater
3. Non-A/C Sleeper
4. Non-A/C Seater

Choose 1/2/3/4
Choose Seat-Type: 1
Checking availability of tickets
Tickets are not available.
Tickets left in stock: 1

-----
                Welcome to the Menu.
Please choose your desired task operation -
1. Create New Booking
2. Check Status of Existing Booking
3. Exit

Choose 1/2/3
Your choice: 3
Thanks for using our Service.
Have a Nice Day !!
>>> |
```

Ln: 139 Col: 4

Ln: 138 Col: 4

Case 2 : Login via the details:-

```
-----  
Welcome to BusTravels Agency  
-----  
Thanks for Choosing our Service !!  
  
1. Login [Existing User]  
2. Sign-Up [New User]  
  
Choose 1/2  
Your Choice: 1
```

As we registered our account, we'd have an already existing account:-

```
-----  
Welcome to BusTravels Agency  
-----  
Thanks for Choosing our Service !!  
  
1. Login [Existing User]  
2. Sign-Up [New User]  
  
Choose 1/2  
Your Choice: 1  
Enter your Phone Number :9876543210  
Enter Password : |
```

For wrong password:-

```
-----  
Welcome to BusTravels Agency  
-----  
Thanks for Choosing our Service !!  
  
1. Login [Existing User]  
2. Sign-Up [New User]  
  
Choose 1/2  
Your Choice: 1  
Enter your Phone Number :9876543210  
Enter Password : abcdefg|
```

Welcome to BusTravels Agency

Thanks for Choosing our Service !!

1. Login [Existing User]
2. Sign-Up [New User]

Choose 1/2

Your Choice: 1

Enter your Phone Number :9876543210

Enter Password : abcdefg

Your Password is wrong ! Re-enter your Password

Do you want to re-enter your password ? (Y/N): |

Welcome to BusTravels Agency

Thanks for Choosing our Service !!

1. Login [Existing User]
2. Sign-Up [New User]

Choose 1/2

Your Choice: 1

Enter your Phone Number :9876543210

Enter Password : abcdefg

Your Password is wrong ! Re-enter your Password

Do you want to re-enter your password ? (Y/N): Y

Enter Password : admin123

Correct password entered:-

```
-----
Welcome to BusTravels Agency
-----
Thanks for Choosing our Service !!

1. Login [Existing User]
2. Sign-Up [New User]

Choose 1/2
Your Choice: 1
Enter your Phone Number :9876543210
Enter Password : abcdefg
Your Password is wrong ! Re-enter your Password
Do you want to re-enter your password ? (Y/N): Y
Enter Password : admin123
Login verified ! Redirecting...
-----

Welcome to the Menu.
Please choose your desired task operation -
1. Create New Booking
2. Check Status of Existing Booking
3. Exit

Choose 1/2/3
Your choice: |
```

Bibliography:

- Computer Science with Python – Sumita Arora (Dhanpat Rai and Co. Publication)
- <https://www.geeksforgeeks.org>
- <https://www.w3schools.com>
- The project has been guided by Mr Sahil Naik.

CONCLUSION - This project of Bus management is actual project made from scratch with proper understanding of the concepts of python and SQL. The code above is a total functioning programme. I would like to thank my fellow mate Aayush Beura for helping me out in the programme. I would also like to thank Bhagyalakshmi Mam for making me capable to built such project.