**Computer Project**

**Name – Prayas Kar**

**Class – 12 A**

**Topic – Hotel Management System**

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***Certificate***

The work entitled “Hotel Management System” is the benefited work of “Prayas Kar”

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**Internal Invigilator’s sign External invigilator’s Sign**

***Acknowledgement:***

I owe a debt of gratitude to my Computer Science teacher Miss Susmita Basak who gave me this golden opportunity to do this project and also provided encouragement and help throughout my work.

I am particularly indebted to my parents for their support and guidance without which I would not be able to complete the task within the given time.

I would like to thank my friends for their consistent help.

Thank You

***Project Synopsis:***

Title of the project: Hotel Management System

Objectives of the study:

* Create an input/output interface for the user and the hotel system.
* Set up the back-end to perform the necessary operations
* Maintain a register to system all the customer and employee history of the hotel.

A centralized registration system is very much needed, especially when dealing with numerous customers and employees. It needs to be capable enough to handle large amounts of data. While dealing with large data, some common problems do occur:

* Data Misplacing happens most of the time.
* Hard to keep track of customers and employees.
* Demand for more skilled manpower.

To solve such problems, a centralized management system is very much needed nowadays, which is the aim of our study.

Name of Guide: Susmita Basak

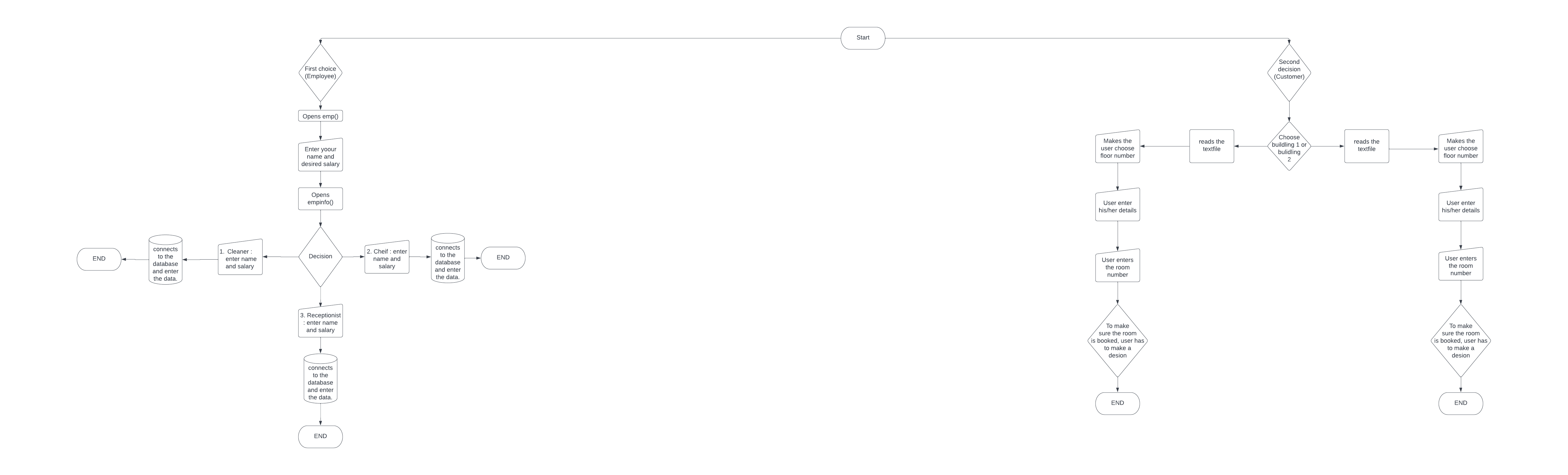
***System Pacifications:***

Software:

* Windows 11 (64 bit)
* Python (3.10 64bit)

Hardware:

* Intel(R) Core(TM) i7-10700F CPU @ 2.90GHz
* 16 GB (RAM)

***Flow Chart:***

Please use the hyperlink to view the flow chart: [Flow Chart.xlsx](Flow%20Chart.xlsx)

***Source Code:***

import mysql.connector

def choice():

print("Are you a emplyee or are you a customer?? ")

print("Please enter your class ['Employee' or 'Customer']")

a=input('Enter : ')

if a=='Employee' or a=='employee':

emp()

elif a=='Customer' or a=='customer':

ty()

def welcome():

f=open('Welcome.txt','r')

l=f.readlines()

for i in l:

print(i)

f.close()

def emp():

f=open('emp.txt','r')

l=f.readlines()

for i in l:

print(i)

print('Are you interested ? , press y to work with us else press n to stop ')

a=input('Enter your choice : ')

if a=='Y' or a=='y':

empinfo()

if a=='N' or a=='n':

print('Apreciated your visit, please comeback if you change your mind ')

def ty():

print('In which hotel would you like to stay ? ')

f1=open('Hotel\_1.txt','r')

f2=open('Hotel\_2.txt','r')

l1=f1.readlines()

for i in l1:

print(i)

l2=f2.readlines()

for j in l2:

print(j)

print('press 1 to avail a room in Hotel Sea View (buliding 1)')

print('press 2 to avail a room in Hotel Sea View (building 2)')

a=int(input('enter choice : '))

if a==1:

welcome()

h1()

if a==2:

welcome()

h2()

#\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_#

def h1():

a=input('Enter your name : ')

n1=input('Enter the date till which you will stay (PLEASE ENTER THE DATE IN THIS FORMAT[YYYY-MM-DD]) : ')

n=str(n1)

c=mysql.connector.connect(host='localhost',user='root',password='3469',database='hotel\_management\_system')

cur=c.cursor()

cur.execute("select \* from hotel\_1")

print('(floor\_no,no\_of\_room,vacancy)')

for i in cur:

print(i)

print('In which floor would you like to stay ? ')

print('press 1 to avail a room in First Floor')

print('press 2 to avail a room in Second Floor')

print('press 3 to avail a room in Third Floor')

x=int(input('Enter Your Choice : '))

if x==1:

cur.execute("select \* from hotel\_1\_floors\_data where room\_no like '1%' and rooms\_occupied\_by='Vacant'")

print('(room\_no | rooms\_occupied\_by | room\_occupied\_till)')

for j in cur:

print(j)

print('In which room would you like to stay ? ')

a1=int(input('Enter room number : '))

if a1==104:

cur.execute("update hotel\_1\_floors\_data set rooms\_occupied\_by=%s where room\_no=104",[a])

cur.execute("update hotel\_1\_floors\_data set room\_occupied\_till=%s where room\_no=104",[n])

print('Your room has been booked')

a3=input('If you wish to verify your stay please press v or press c to cancel verify : ')

if a3=='V' or a3=='v':

cur.execute("select \* from hotel\_1\_floors\_data where rooms\_occupied\_by=%s",[a])

print('(room\_no | rooms\_occupied\_by | room\_occupied\_till)')

for l in cur:

print(l)

print('Enjoy your stay!')

if a3=='c' or a3=='C':

print('Enjoy your stay!')

elif a1==105:

cur.execute("update hotel\_1\_floors\_data set rooms\_occupied\_by=%s where room\_no=105",[a])

cur.execute("update hotel\_1\_floors\_data set room\_occupied\_till=%s where room\_no=105",[n])

print('Your room has been booked')

a3=input('If you wish to verify your stay please press v or press c to cancel verify : ')

if a3=='V' or a3=='v':

cur.execute("select \* from hotel\_1\_floors\_data where rooms\_occupied\_by=%s",[a])

print('(room\_no | rooms\_occupied\_by | room\_occupied\_till)')

for l in cur:

print(l)

print('Enjoy your stay!')

if a3=='c' or a3=='C':

print('Enjoy your stay!')

elif x==2:

cur.execute("select \* from hotel\_1\_floors\_data where room\_no like '2%' and rooms\_occupied\_by='Vacant'")

for k in cur:

print(k)

print('In which room would you like to stay ? ')

a1=int(input('Enter room number : '))

if a1==203:

cur.execute("update hotel\_1\_floors\_data set rooms\_occupied\_by=%s where room\_no=203",[a])

cur.execute("update hotel\_1\_floors\_data set room\_occupied\_till=%s where room\_no=203",[n])

print('Your room has been booked')

a3=input(' if you wish to verify your stay please press v or press c to cancel verify')

if a3=='V' or a3=='v':

cur.execute("select \* from hotel\_1\_floors\_data where rooms\_occupied\_by=%s",[a])

print('(room\_no | rooms\_occupied\_by | room\_occupied\_till)')

for l in cur:

print(l)

print('Enjoy your stay!')

if a3=='c' or a3=='C':

print('Enjoy your stay!')

elif a1==204:

cur.execute("update hotel\_1\_floors\_data set rooms\_occupied\_by=%s where room\_no=204",[a])

cur.execute("update hotel\_1\_floors\_data set room\_occupied\_till=%s where room\_no=204",[n])

print('Your room has been booked')

a3=input('If you wish to verify your stay please press v or press c to cancel verify : ')

if a3=='V' or a3=='v':

cur.execute("select \* from hotel\_1\_floors\_data where rooms\_occupied\_by=%s",[a])

print('(room\_no | rooms\_occupied\_by | room\_occupied\_till)')

for l in cur:

print(l)

print('Enjoy your stay!')

if a3=='c' or a3=='C':

print('Enjoy your stay!')

if a1==205:

cur.execute("update hotel\_1\_floors\_data set rooms\_occupied\_by=%s where room\_no=205",[a])

cur.execute("update hotel\_1\_floors\_data set room\_occupied\_till=%s where room\_no=205",[n])

print('Your room has been booked')

a3=input('If you wish to verify your stay please press v or press c to cancel verify : ')

if a3=='V' or a=='v':

cur.execute("select \* from hotel\_1\_floors\_data where rooms\_occupied\_by=%s",[a])

print('(room\_no | rooms\_occupied\_by | room\_occupied\_till)')

for l in cur:

print(l)

print('Enjoy your stay!')

if a3=='c' or a3=='C':

print('Enjoy your stay!')

elif x==3:

cur.execute("select \* from hotel\_1\_floors\_data where room\_no like '3%' and rooms\_occupied\_by='Vacant'")

for z in cur:

print(z)

print('In which room would you like to stay ? ')

a1=int(input('Enter room number : '))

if a1==303:

cur.execute("update hotel\_1\_floors\_data set rooms\_occupied\_by=%s where room\_no=303",[a])

cur.execute("update hotel\_1\_floors\_data set room\_occupied\_till=%s where room\_no=303",[n])

print('Your room has been booked')

a3=input('If you wish to verify your stay please press v or press c to cancel verify : ')

if a3=='V' or a3=='v':

cur.execute("select \* from hotel\_1\_floors\_data where rooms\_occupied\_by=%s",[a])

print('(room\_no | rooms\_occupied\_by | room\_occupied\_till)')

for l in cur:

print(l)

print('Enjoy your stay!')

if a3=='c' or a3=='C':

print('Enjoy your stay!')

elif a1==304:

cur.execute("update hotel\_1\_floors\_data set rooms\_occupied\_by=%s where room\_no=304",[a])

cur.execute("update hotel\_1\_floors\_data set room\_occupied\_till=%s where room\_no=304",[n])

print('Your room has been booked')

a3=input('If you wish to verify your stay please press v or press c to cancel verify : ')

if a3=='V' or a3=='v':

cur.execute("select \* from hotel\_1\_floors\_data where rooms\_occupied\_by=%s",[a])

print('(room\_no | rooms\_occupied\_by | room\_occupied\_till)')

for l in cur:

print(l)

print('Enjoy your stay!')

if a3=='c' or a3=='C':

print('Enjoy your stay!')

if a1==305:

cur.execute("update hotel\_1\_floors\_data set rooms\_occupied\_by=%s where room\_no=305",[a])

cur.execute("update hotel\_1\_floors\_data set room\_occupied\_till=%s where room\_no=305",[n])

print('Your room has been booked')

a3=input('If you wish to verify your stay please press v or press c to cancel verify : ')

if a3=='V' or a3=='v':

cur.execute("select \* from hotel\_1\_floors\_data where rooms\_occupied\_by=%s",[a])

print('(room\_no | rooms\_occupied\_by | room\_occupied\_till)')

for l in cur:

print(l)

print('Enjoy your stay!')

if a3=='c' or a3=='C':

print('Enjoy your stay!')

#\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_#

def h2():

a=input('Enter your name : ')

n1=input('Enter the date till which you will stay (PLEASE ENTER THE DATE IN THIS FORMAT[YYYY-MM-DD]) : ')

n=str(n1)

c=mysql.connector.connect(host='localhost',user='root',password='3469',database='hotel\_management\_system')

cur=c.cursor()

cur.execute("select \* from hotel\_2")

print('(floor\_no,no\_of\_room,vacancy)')

for i in cur:

print(i)

print('In which floor would you like to stay ? ')

print('press 1 to avail a room in First Floor')

print('press 2 to avail a room in Second Floor')

x=int(input('Enter Your Choice : '))

if x==1:

cur.execute("select \* from hotel\_2\_floors\_data where room\_no like '1%' and rooms\_occupied\_by='Vacant'")

print('(room\_no | rooms\_occupied\_by | room\_occupied\_till)')

for j in cur:

print(j)

print('In which room would you like to stay ? ')

a1=int(input('Enter room number : '))

if a1==101:

cur.execute("update hotel\_1\_floors\_data set rooms\_occupied\_by=%s where room\_no=101",[a])

cur.execute("update hotel\_1\_floors\_data set room\_occupied\_till=%s where room\_no=101",[n])

print('Your room has been booked')

a3=input('If you wish to verify your stay please press v or press c to cancel verify : ')

if a3=='V' or a3=='v':

cur.execute("select \* from hotel\_1\_floors\_data where rooms\_occupied\_by=%s",[a])

print('(room\_no | rooms\_occupied\_by | room\_occupied\_till)')

for l in cur:

print(l)

print('Enjoy your stay!')

if a3=='c' or a3=='C':

print('Enjoy your stay!')

elif a1==102:

cur.execute("update hotel\_1\_floors\_data set rooms\_occupied\_by=%s where room\_no=102",[a])

cur.execute("update hotel\_1\_floors\_data set room\_occupied\_till=%s where room\_no=102",[n])

print('Your room has been booked')

a3=input('If you wish to verify your stay please press v or press c to cancel verify : ')

if a3=='V' or a=='v':

cur.execute("select \* from hotel\_1\_floors\_data where rooms\_occupied\_by=%s",[a])

print('(room\_no | rooms\_occupied\_by | room\_occupied\_till)')

for l in cur:

print(l)

print('Enjoy your stay!')

if a3=='c' or a3=='C':

print('Enjoy your stay!')

elif a1==103:

cur.execute("update hotel\_1\_floors\_data set rooms\_occupied\_by=%s where room\_no=103",[a])

cur.execute("update hotel\_1\_floors\_data set room\_occupied\_till=%s where room\_no=103",[n])

print('Your room has been booked')

a3=input('If you wish to verify your stay please press v or press c to cancel verify : ')

if a3=='V' or a3=='v':

cur.execute("select \* from hotel\_1\_floors\_data where rooms\_occupied\_by=%s",[a])

print('(room\_no | rooms\_occupied\_by | room\_occupied\_till)')

for l in cur:

print(l)

print('Enjoy your stay!')

if a3=='c' or a3=='C':

print('Enjoy your stay!')

elif x==2:

cur.execute("select \* from hotel\_1\_floors\_data where room\_no like '2%' and rooms\_occupied\_by='Vacant'")

for k in cur:

print(k)

print('In which room would you like to stay ? ')

a1=int(input('Enter room number : '))

if a1==203:

cur.execute("update hotel\_1\_floors\_data set rooms\_occupied\_by=%s where room\_no=104",[a])

cur.execute("update hotel\_1\_floors\_data set room\_occupied\_till=%s where room\_no=104",[n])

print('Your room has been booked')

a3=input('If you wish to verify your stay please press v or press c to cancel verify : ')

if a3=='V' or a3=='v':

cur.execute("select \* from hotel\_1\_floors\_data where rooms\_occupied\_by=%s",[a])

print('(room\_no | rooms\_occupied\_by | room\_occupied\_till)')

for l in cur:

print(l)

print('Enjoy your stay!')

if a3=='c' or a3=='C':

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if a1==204:

cur.execute("update hotel\_1\_floors\_data set rooms\_occupied\_by=%s where room\_no=204",[a])

cur.execute("update hotel\_1\_floors\_data set room\_occupied\_till=%s where room\_no=204",[n])

print('Your room has been booked')

a3=input('If you wish to verify your stay please press v or press c to cancel verify : ')

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print('(room\_no | rooms\_occupied\_by | room\_occupied\_till)')

for l in cur:

print(l)

print('Enjoy your stay!')

if a3=='c' or a3=='C':

print('Enjoy your stay!')

if a1==205:

cur.execute("update hotel\_1\_floors\_data set rooms\_occupied\_by=%s where room\_no=205",[a])

cur.execute("update hotel\_1\_floors\_data set room\_occupied\_till=%s where room\_no=205",[n])

print('Your room has been booked')

a3=input('If you wish to verify your stay please press v or press c to cancel verify : ')

if a3=='V' or a3=='v':

cur.execute("select \* from hotel\_1\_floors\_data where rooms\_occupied\_by=%s",[a])

print('(room\_no | rooms\_occupied\_by | room\_occupied\_till)')

for l in cur:

print(l)

print('Enjoy your stay!')

if a3=='c' or a3=='C':

print('Enjoy your stay!')

#\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_#

def empinfo():

c=mysql.connector.connect(host='localhost',user='root',password='3469',database='hotel\_management\_system')

cur=c.cursor()

print("Please register yourself to hotel's employee databse ")

a=input('Please enter your name : ')

d=input("Please enter the department you want to wonk on ['Cleaner','Chief','Receptionist'] : ")

if d=='Cleaner' or d=='cleaner':

print('Salary given to cleaner is between 10000 to 25000, please enter your price within this price range')

s=int(input('Enter your desired salary : '))

if s>=10000 and s<=25000:

cur.execute("insert into Emp values(%s,%s,%s)”,[a,d,s])

print('You are a registered worker now !')

if d=='Chief' or d=='chief':

print('Salary given to chief is between 15000 to 30000, please enter your price within this price range')

s=int(input('Enter your desired salary : '))

if s>=15000 and s<=30000:

sql="insert into Emp values(%s,%s,%s)"

cur.execute("insert into Emp values(%s,%s,%s)",[a,d,s])

print('You are a registered worker now !')

if d=='Receptionist' or d=='receptionist':

print('Salary given to Receptionist is between 30000 to 50000, please enter your price within this range')

s=int(input('Enter your desired salary : '))

if s>=30000 and s<=50000:

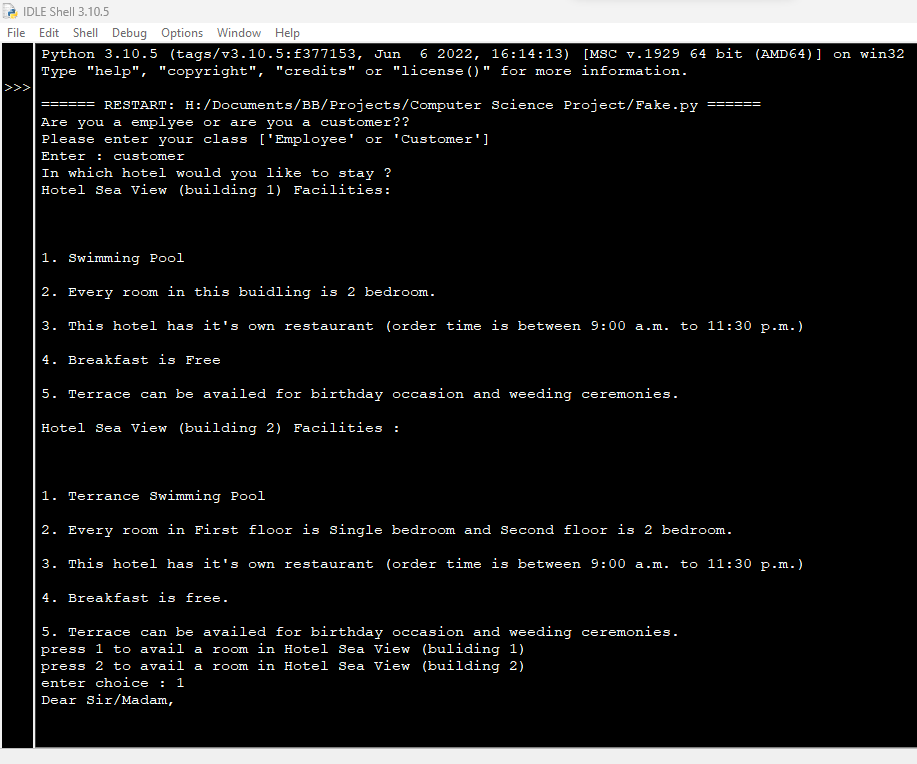
cur.execute("insert into Emp values(%s,%s,%s)",[a,d,s])

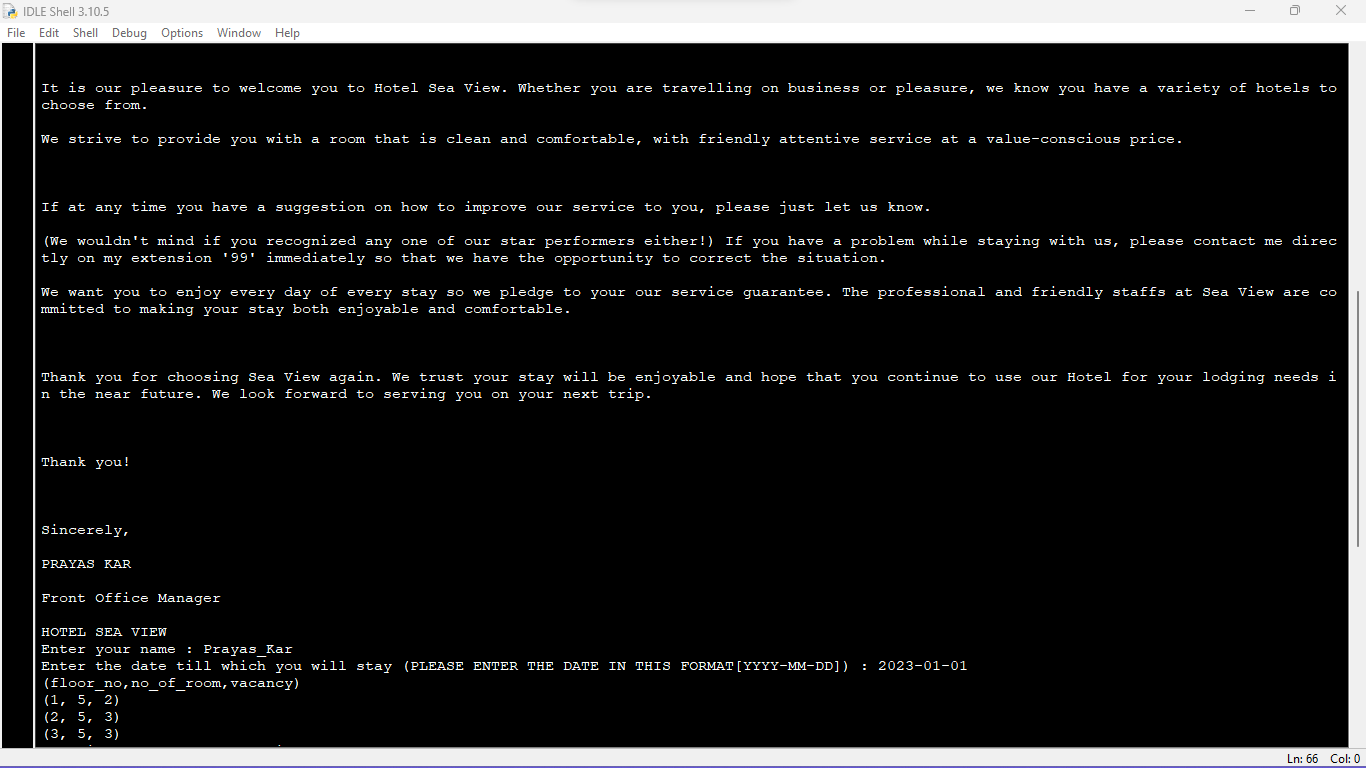
print('You are a registered worker now !')

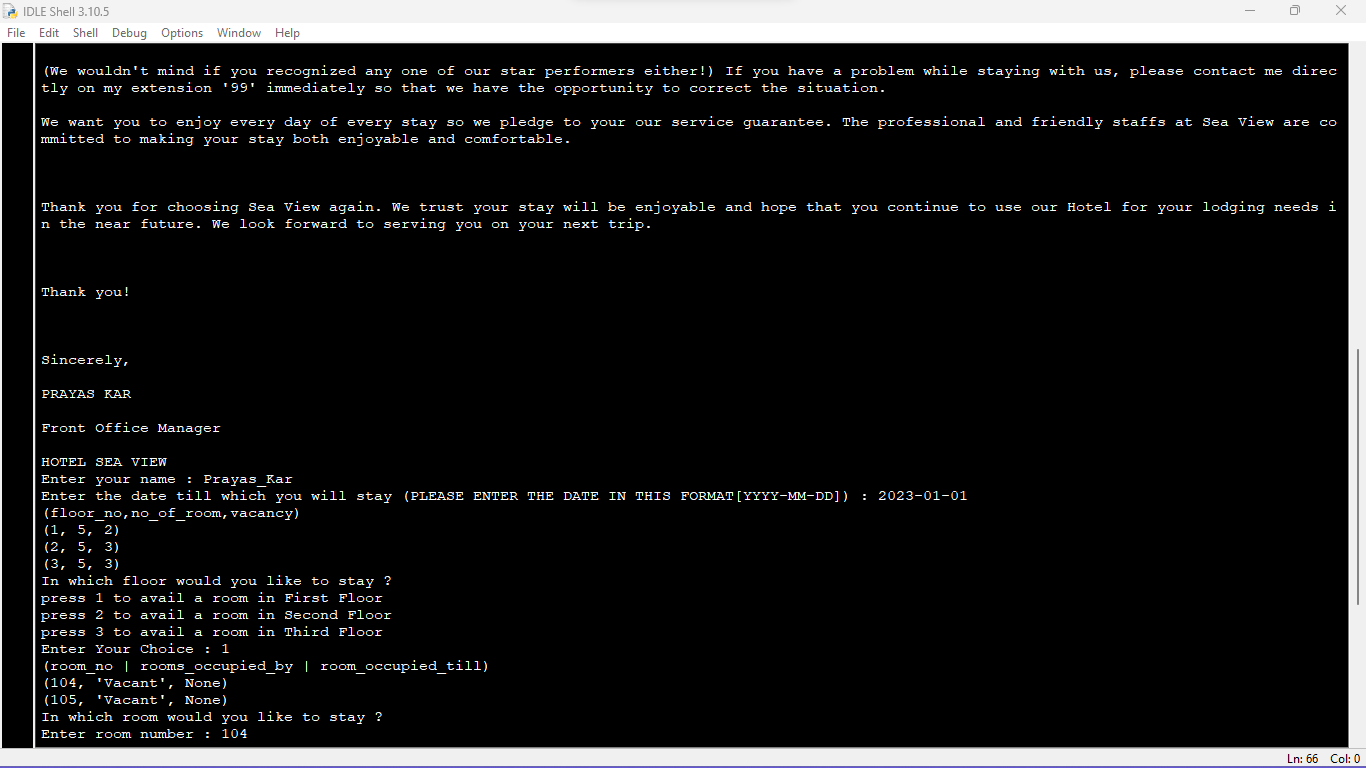
#\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_#

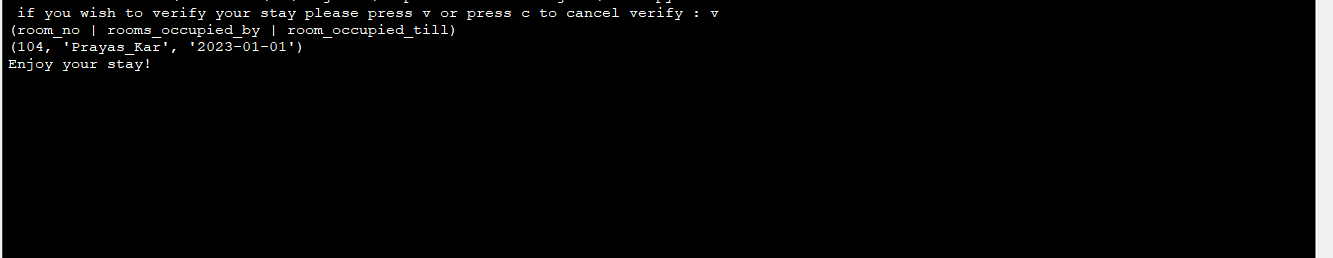
choice()

***Output Screen:***









***Bibliography:***

* [www.youtube.com](http://www.youtube.com)
* [www.Wikipedia.com](http://www.Wikipedia.com)
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