



Computer Science Project.

Hotel Management

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Class:- XII-C

Certificate

This is to certify that the **"Computer Science Project"** on the Topic **"Hotel Management"** has been completed by **Aman Kushwaha** of class XII-C under the guidance of **Mrs. Ruth Jeba** in particular fulfillment of the curriculum of **All India Senior School Certificate Examination (AISSCE)** Leading to the award of annual examination of the year **2022-23.**

Signature of the External examiner

Signature of the Computer teacher

Acknowledgment

I have made efforts in this project. However, it would not have been possible without many individuals' kind support and help.

I would like to thank my principal **Dr. M. Kannan** and the school for providing me with the facilities required to do my project.

I am highly indebted to my Computer teacher, **Mrs. Ruth Jeba**, for her invaluable guidance which has sustained my efforts in all the stages of this project work.

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My thanks and appreciation also goes to my classmates and the laboratory assistant in developing the project and to the people who willingly helped me with their abilities.



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Introduction:-

The project “Hotel Management System” is aimed to develop to maintain the day-to-day state of admission/Vacation of Residents, List of Workers, payment details, etc. The main objective of this project is to provide a solution for hotels to manage most of their work using computerized processes. This software application will help the admin handle customers' information, room allocation details, payment details, and billing information. etc.

SQL: -

```
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 12
Server version: 5.7.40-0ubuntu0.18.04.1 (Ubuntu)
```

Copyright (c) 2000, 2022, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> create database sql12538733;
Query OK, 1 row affected (0.00 sec)
```

```
mysql> use sql12538733
Database changed
```

```
mysql> CREATE TABLE checkin ( pid INT(16) NOT NULL , name VARCHAR(30) NOT NULL , phoneno INT(10) NOT NULL , verification INT NOT NULL , checkin DATE NOT NULL , PRIMARY KEY (pid));
Query OK, 0 rows affected (0.44 sec)
```

```
mysql> desc checkin;
```

Field	Type	Null	Key	Default	Extra
pid	int(16)	NO	PRI	NULL	
name	varchar(30)	NO		NULL	
phoneno	int(10)	NO		NULL	
verification	int(11)	NO		NULL	
checkin	date	NO		NULL	

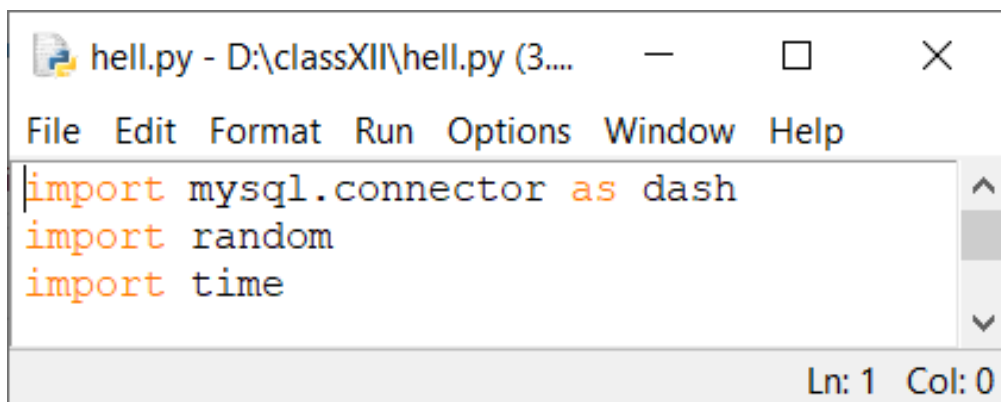
```
5 rows in set (0.01 sec)
```

```
mysql>
```

Python

A. Source Code:-

➤ Importing The Required Modules:-



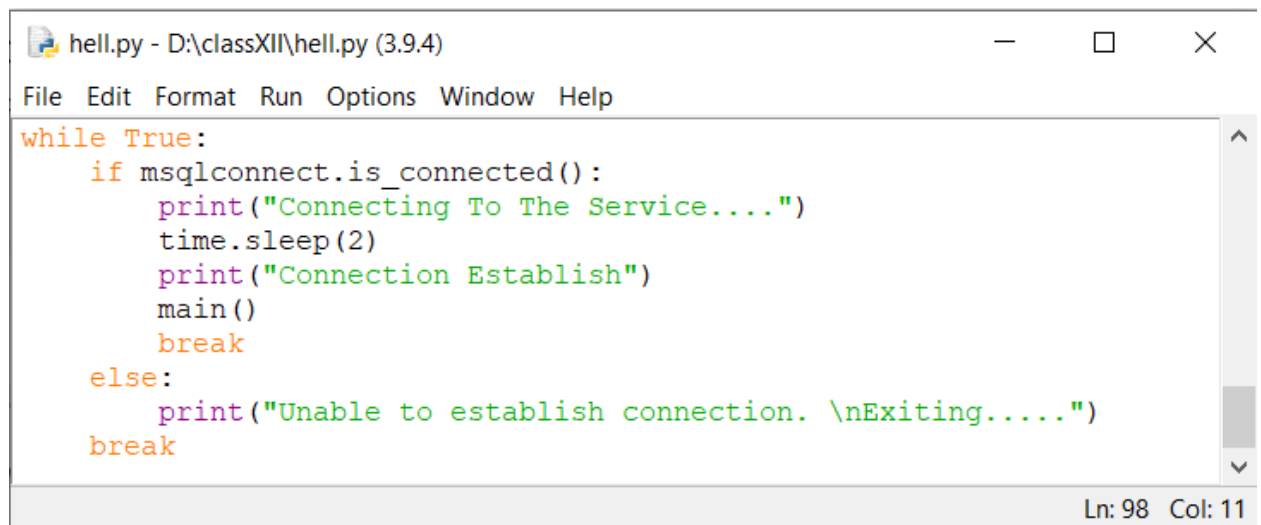
```
hell.py - D:\classXII\hell.py (3....  
File Edit Format Run Options Window Help  
import mysql.connector as dash  
import random  
import time  
Ln: 1 Col: 0
```

➤ Connecting Mysql Database to Python:-



```
*hell.py - D:\classXII\hell.py (3.9.4)*  
File Edit Format Run Options Window Help  
mysqlconnect = mysqlconnector.connect(host='sql12.freemysqlhosting.net',  
                                     user='sql12578350', passwd='84xPRyu3EQ',  
                                     database='sql12578350')  
cur = mysqlconnect.cursor()  
Ln: 10 Col: 0
```

➤ Writing A While Loop To Run The Main Function And Check The Connectivity Between Python Code And SQL Server:-

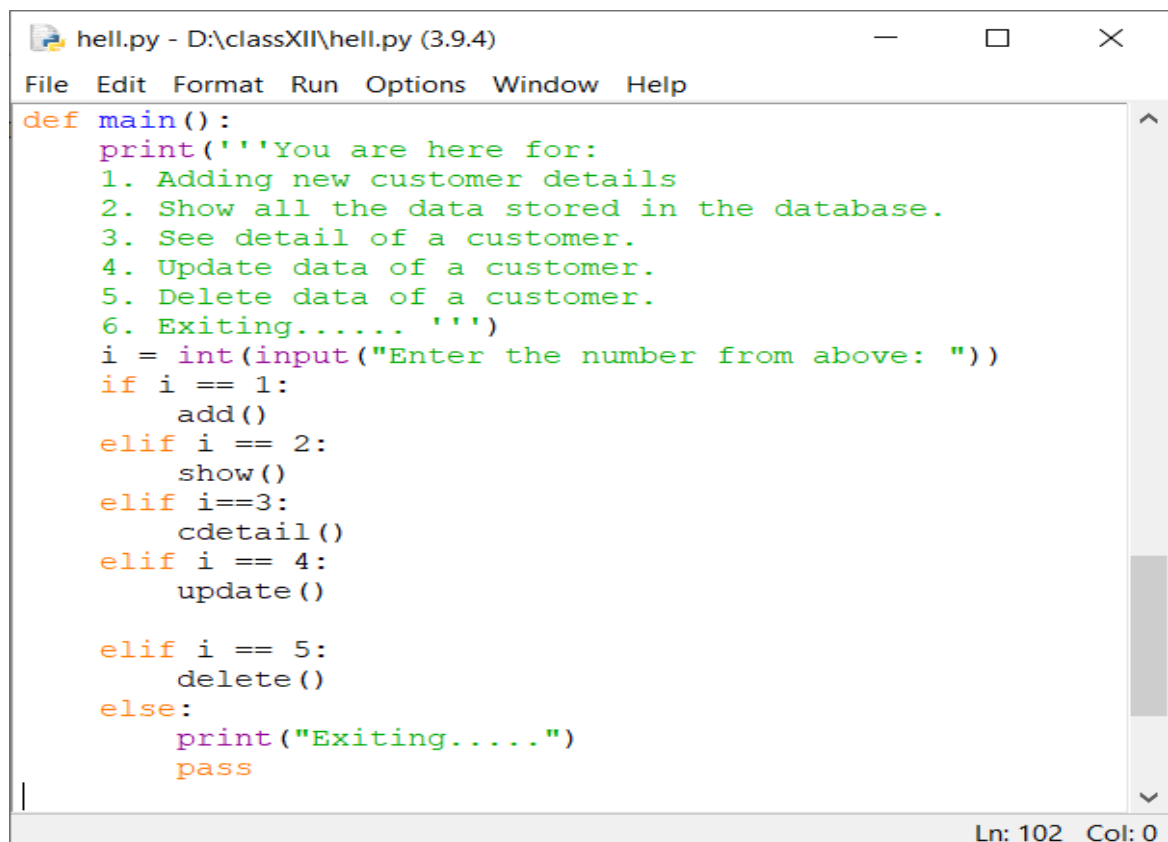


The screenshot shows a Python IDE window titled 'hell.py - D:\classXII\hell.py (3.9.4)'. The menu bar includes File, Edit, Format, Run, Options, Window, and Help. The code in the editor is as follows:

```
while True:
    if msqlconnect.is_connected():
        print("Connecting To The Service....")
        time.sleep(2)
        print("Connection Establish")
        main()
        break
    else:
        print("Unable to establish connection. \nExiting.....")
        break
```

The status bar at the bottom right indicates 'Ln: 98 Col: 11'.

➤ Write The Main Function To Operator The Other Functions:-



The screenshot shows the same Python IDE window. The code in the editor is as follows:

```
def main():
    print('''You are here for:
    1. Adding new customer details
    2. Show all the data stored in the database.
    3. See detail of a customer.
    4. Update data of a customer.
    5. Delete data of a customer.
    6. Exiting..... ''')
    i = int(input("Enter the number from above: "))
    if i == 1:
        add()
    elif i == 2:
        show()
    elif i==3:
        cdetail()
    elif i == 4:
        update()

    elif i == 5:
        delete()
    else:
        print("Exiting.....")
        pass
```

The status bar at the bottom right indicates 'Ln: 102 Col: 0'.

➤ Writing A Function To Add New Customer Detail:-

```
*hell.py - D:\classXII\hell.py (3.9.4)*
File Edit Format Run Options Window Help

def add():
    cid = random.randint(100, 999999999)
    name = input("Enter the name of the customer: ")
    phoneno = random.randint(1000000000, 9999999999)
    verification = int(input(
        "Enter 0 if customer does not provide any verification document else enter 1: "))
    checkin = input("Enter the checkin in YYYY-MM-DD format: ")
    checkout = input("Enter the checkout in YYYY-MM-DD format: ")
    cur.execute(
        f'''INSERT INTO `checkin` (`cid`, `name`, `phoneno`, `verification`,
`checkindate`, `checkoutdate`) VALUES ('{cid}',
'{name}', '{phoneno}', '{verification}', '{checkin}', '{checkout}');'''
    )
    mysqlconnect.commit()

Ln: 30 Col: 0
```

➤ Write A Function To Show All The Data Stored In The Database:-

```
*hell.py - D:\classXII\hell.py (3.9.4)*
File Edit Format Run Options Window Help

def show():
    cur.execute("select * from checkin")
    d = cur.fetchall()
    tabl = []
    for r in d:
        tabl.append(r)
    # print(tabl)
    print("cid \t\tname\t\tphoneno \tverification\t checkin \t checkout")
    for ele1,ele2,ele3,ele4,ele5,ele6 in tabl:
        print("{:<14}|\t{:<11}| \t{:<16}|\t\t{:<4}|\t| {} | {}".format(ele1,ele2,ele3,ele4,ele5,ele6))

Ln: 10 Col: 0
```

➤ Write A Function To Update The Data Of A Customer:-

```

hell.py - D:\classXII\hell.py (3.9.4)
File Edit Format Run Options Window Help
def update():
    print('What you want to update:
    1. Phone Number
    2. Verification.
    3. Checkindate
    4. Checkoutdate')
    d=int(input("Enter the number: "))
    l = ['phoneno', 'verification', 'checkindate', 'checkoutdate']
    cid = int(input("Enter The Respective 'cid': "))
    update = input("Enter The Value: ")
    if d==1 or d==3 or d==4:
        cur.execute(f"update checkin set {l[d-1]}={update} where cid={cid}")
        msqconnect.commit()
    elif d==2:
        cur.execute(f"update checkin set {l[d-1]}={int(update)} where cid={cid}")
        msqconnect.commit()

    else:
        print("Enter the correct option.\nTerminating.....")
        pass

```

Ln: 73 Col: 0

➤ Write A Function To Delete The Data Of A Customer:-

```

hell.py - D:\classXII\hell.py (3.9.4)
File Edit Format Run Options Window Help
def delete():
    print("Which customer data you want delete: ")
    cid = int(input("Enter The Respective 'cid': "))

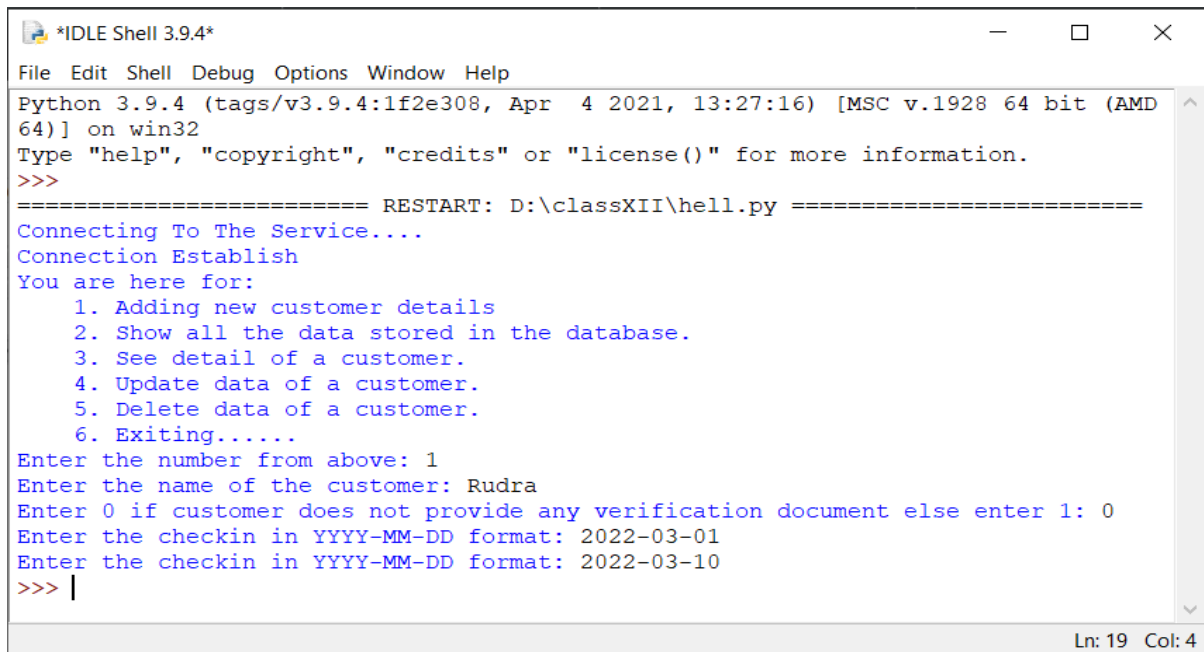
    cur.execute(f"delete from checkin where cid={cid}")
    msqconnect.commit()

```

Ln: 61 Col: 0

B. Outputs: -

1) Adding New Customer Details:-

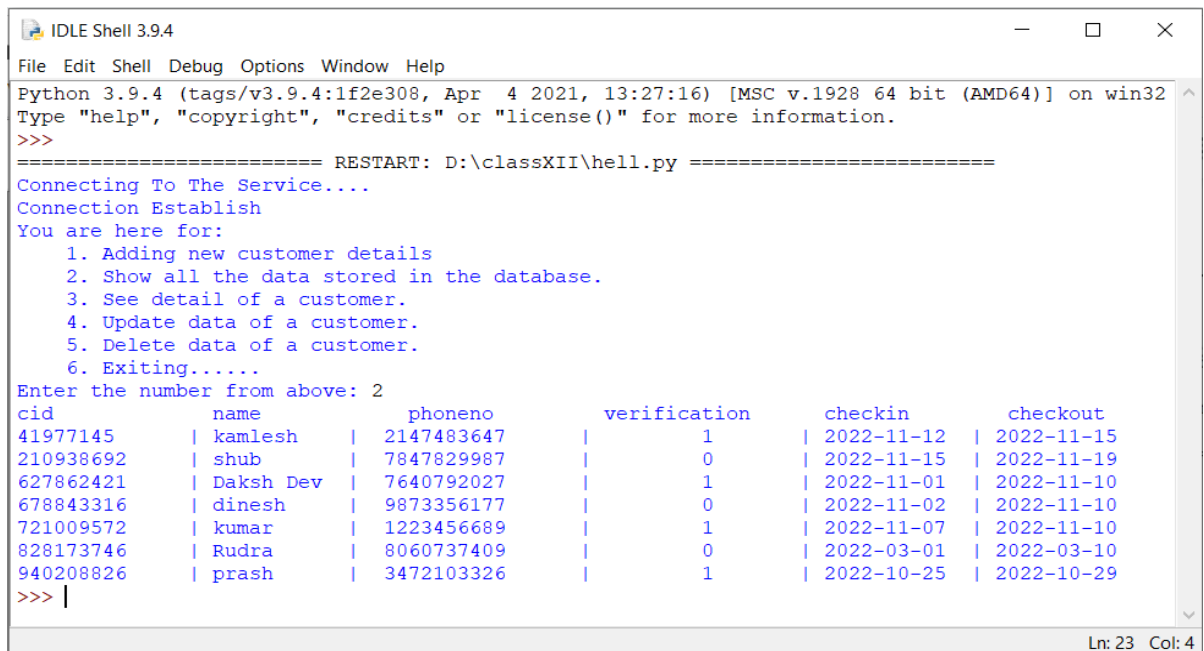


```

*IDLE Shell 3.9.4
File Edit Shell Debug Options Window Help
Python 3.9.4 (tags/v3.9.4:1f2e308, Apr 4 2021, 13:27:16) [MSC v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\classXII\hell.py =====
Connecting To The Service....
Connection Establish
You are here for:
1. Adding new customer details
2. Show all the data stored in the database.
3. See detail of a customer.
4. Update data of a customer.
5. Delete data of a customer.
6. Exiting.....
Enter the number from above: 1
Enter the name of the customer: Rudra
Enter 0 if customer does not provide any verification document else enter 1: 0
Enter the checkin in YYYY-MM-DD format: 2022-03-01
Enter the checkout in YYYY-MM-DD format: 2022-03-10
>>> |
Ln: 19 Col: 4

```

2) Listing All The Data Stored On The Database:-

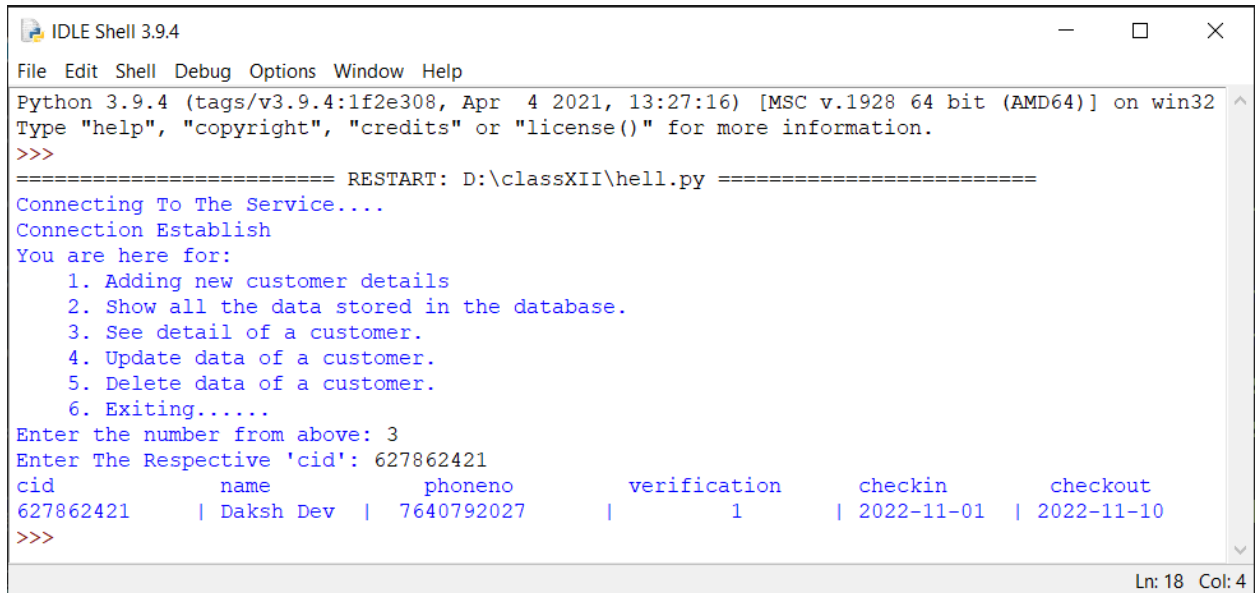


```

IDLE Shell 3.9.4
File Edit Shell Debug Options Window Help
Python 3.9.4 (tags/v3.9.4:1f2e308, Apr 4 2021, 13:27:16) [MSC v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\classXII\hell.py =====
Connecting To The Service....
Connection Establish
You are here for:
1. Adding new customer details
2. Show all the data stored in the database.
3. See detail of a customer.
4. Update data of a customer.
5. Delete data of a customer.
6. Exiting.....
Enter the number from above: 2
cid          name          phoneno      verification  checkin      checkout
41977145     | kamlesh      | 2147483647  | 1            | 2022-11-12  | 2022-11-15
210938692    | shub         | 7847829987  | 0            | 2022-11-15  | 2022-11-19
627862421    | Daksh Dev    | 7640792027  | 1            | 2022-11-01  | 2022-11-10
678843316    | dinesh       | 9873356177  | 0            | 2022-11-02  | 2022-11-10
721009572    | kumar        | 1223456689  | 1            | 2022-11-07  | 2022-11-10
828173746    | Rudra        | 8060737409  | 0            | 2022-03-01  | 2022-03-10
940208826    | prash        | 3472103326  | 1            | 2022-10-25  | 2022-10-29
>>> |
Ln: 23 Col: 4

```

3) Listing Data Of A Particular Customer:-

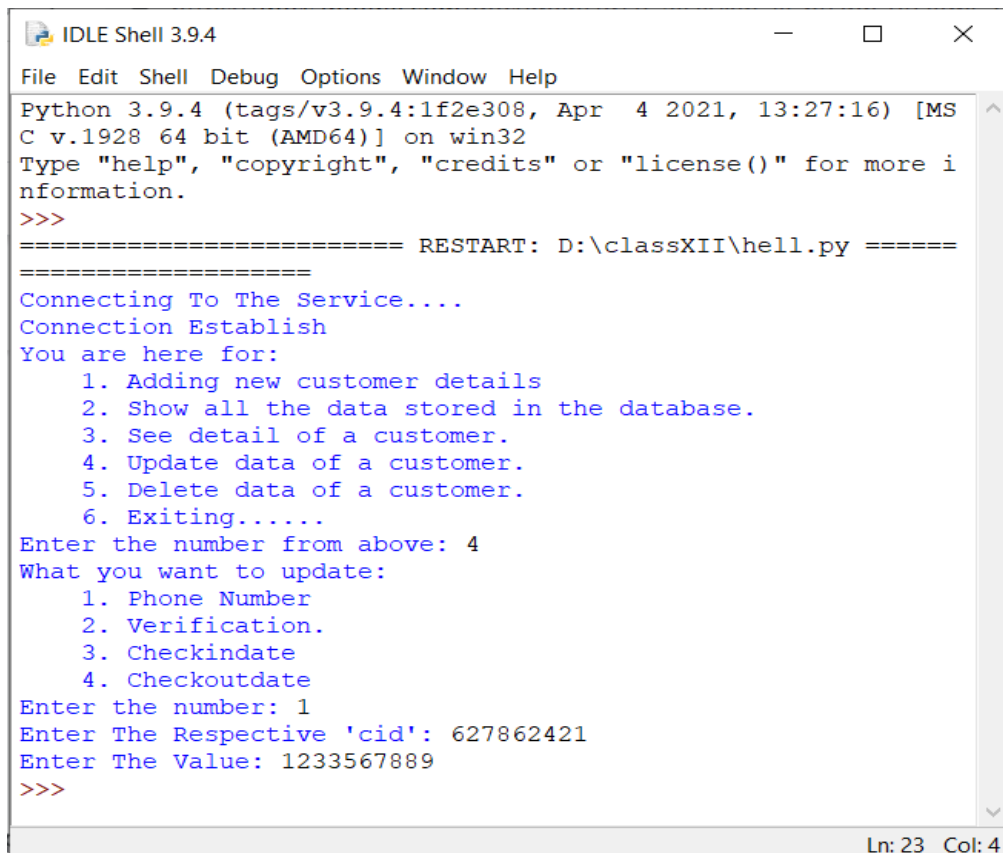


```

IDLE Shell 3.9.4
File Edit Shell Debug Options Window Help
Python 3.9.4 (tags/v3.9.4:1f2e308, Apr  4 2021, 13:27:16) [MSC v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\classXII\hell.py =====
Connecting To The Service....
Connection Establish
You are here for:
  1. Adding new customer details
  2. Show all the data stored in the database.
  3. See detail of a customer.
  4. Update data of a customer.
  5. Delete data of a customer.
  6. Exiting.....
Enter the number from above: 3
Enter The Respective 'cid': 627862421
cid      name      phoneno      verification      checkin      checkout
627862421 | Daksh Dev | 7640792027 | 1 | 2022-11-01 | 2022-11-10
>>>
Ln: 18 Col: 4

```

4) Updating Data Of The Customer:-

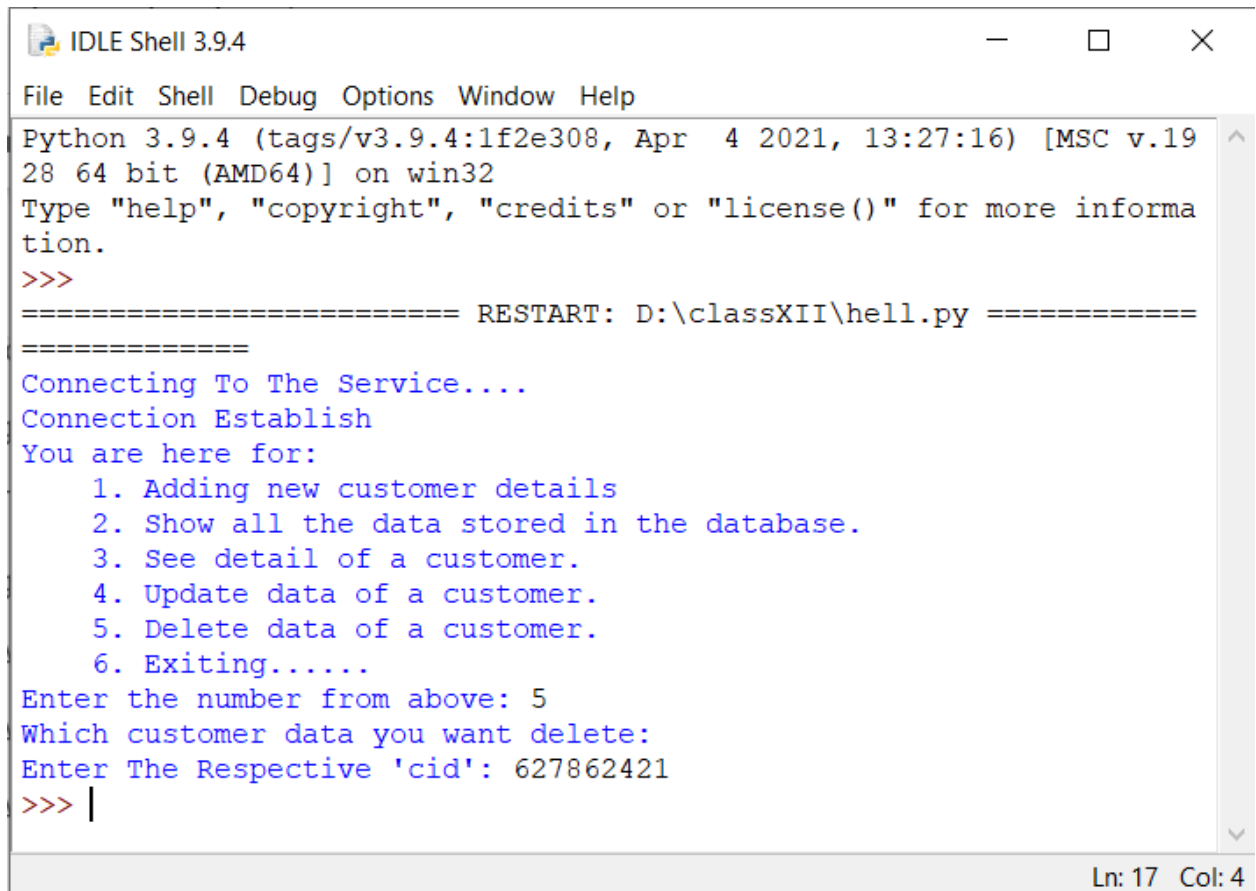


```

IDLE Shell 3.9.4
File Edit Shell Debug Options Window Help
Python 3.9.4 (tags/v3.9.4:1f2e308, Apr  4 2021, 13:27:16) [MS
C v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more i
nformation.
>>>
===== RESTART: D:\classXII\hell.py =====
Connecting To The Service....
Connection Establish
You are here for:
  1. Adding new customer details
  2. Show all the data stored in the database.
  3. See detail of a customer.
  4. Update data of a customer.
  5. Delete data of a customer.
  6. Exiting.....
Enter the number from above: 4
What you want to update:
  1. Phone Number
  2. Verification.
  3. Checkindate
  4. Checkoutdate
Enter the number: 1
Enter The Respective 'cid': 627862421
Enter The Value: 1233567889
>>>
Ln: 23 Col: 4

```

5) Deleting Data Of A Customer:-



```
IDLE Shell 3.9.4
File Edit Shell Debug Options Window Help
Python 3.9.4 (tags/v3.9.4:1f2e308, Apr 4 2021, 13:27:16) [MSC v.19
28 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more informa
tion.
>>>
===== RESTART: D:\classXII\hell.py =====
=====
Connecting To The Service....
Connection Establish
You are here for:
    1. Adding new customer details
    2. Show all the data stored in the database.
    3. See detail of a customer.
    4. Update data of a customer.
    5. Delete data of a customer.
    6. Exiting.....
Enter the number from above: 5
Which customer data you want delete:
Enter The Respective 'cid': 627862421
>>> |
```

Ln: 17 Col: 4

Conclusion

Managing the data of a Hotel using a database reduces the extensive paperwork in the present system. It will make the system more versatile and user-friendly. It also calculates the proper billing slip of the customers.

Bibliography

1. NCERT Book - Computer Science
2. Preeti Arora/Sumit Arora - Computer Science with Python