

COURSE CONTENT

SESSIONS

• DEMO SESSION

• SESSION 1

• SESSION 2

• SESSION 3

• SESSION 4

FEATURES

OOP, data structures

Project Outcomes:

Develop a python program 1

- decision constructs
- looping constructs
- basic operations on a
- more than one class

Project Requirements:

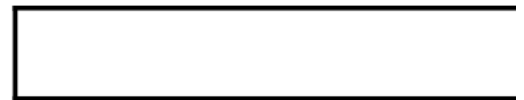
1. Develop a simple **Hotel** class. It should have an individual hotel as objects and will have a **Hotel** class.
2. Build a **Hotel** class with a **location**. It should have a **room**. It will also have a **location**. The hotel are occupied

Specific Requirements

1. The **Hotel** class has
1. **__init__** func
values in the
numOfRoom
It will create
2. The **Hotel** will hav
information: room n
least 5 rooms with d
called **occupied** a
to increment the nun

```
101 queen s 100
102 king n 110
103 king n 88
104 twin s 100
105 queen n 99
```

3. The UML class diag



```

theRooms: Arr
name: String
location: Str
occupiedCnt:
numOfRooms: i

```

```

def __init__(se
def isFull(se
def isEmpty(s
def addRoom(s
def addReserv
bedtype)
def cancelRes
def findReser
def printRese
def getDailyS
def occupancy
Setters and g

```

4. **isFull()** – return

5. **isFull()** – return

```
Room Number:
Occupant nam
Smoking room
Bed Type: ki
Rate: 110.0
```

```
Room Number:
Occupant nam
Smoking room
Bed Type: ki
Rate: 88.0
```

10. **getDailySales** ()
rates of all occupied
11. **occupancyPerce**
provide an occupanc
12. **__str__** - return
the **__str__** in th

```
Hotel Name : Be
Number of Rooms
Number of Occup
```

```
Smoking room: s  
Bed Type: twin  
Rate: 100.0
```

```
Room Number: 105  
Occupant name: Not  
Smoking room: n  
Bed Type: queen  
Rate: 99.0
```

13. The **Room** class diag

```
roomNum: int  
bedType: Stri  
rate: double  
occupantName:  
smoking: char
```

3. `__str__()` provides a string representation of the object (e.g., occupied), bed type, etc. This method is called when the object is printed nicely with one attribute.
4. Several accessor and mutator methods are used to access and modify the object's attributes.

Use list to store the room data

You have to store required room data. Customer data is stored in a dictionary.