Hotel Management Python Code Explanations

1. Class Declaration, Module and Variables

The code given below, which declaring the class , module and its variable.

```python
class hotelmanage:

    def __init__(self,rt='',s=0,p=0,r=0,t=0,a=1000,name='',address='',cindate='',coutdate='',rno=1):

        print ("\n\n*****WELCOME TO HOTEl DE SUAREZ*****\n")

        self.rt=rt

        self.r=r

        self.t=t

        self.p=p

        self.s=s
        self.a=a
        self.name=name
        self.address=address
        self.cindate=cindate
        self.coutdate=coutdate
        self.rno=rno
```

2. Customer Information

This module ask the system to the user to enter the data or information of the customer.

```python
    def inputdata(self):
        self.name=input("\nEnter your Fullname:")
        self.address=input("\nEnter your address:")
        self.cindate=input("\nEnter your check in date:")
```

```
self.coutdate=input("\nEnter your checkout date:")
print("Your room no.:",self.rno,"\n")
```

3. Room Rent

This module displayed the type of rooms that you want to choose and their specific price.

```
def roomrent(self):#sel1353

    print ("We have the following rooms for you:-")

    print ("1.  Class A---->4000")

    print ("2.  Class B---->3000")

    print ("3.  Class C---->2000")

    print ("4.  Class D---->1000")

    x=int(input("Enter the number of your choice Please->"))

    n=int(input("For How Many Nights Did You Stay:"))

    if(x==1):

        print ("you have choose room Class A")

        self.s=4000*n

    elif (x==2):

        print ("you have choose room Class B")

        self.s=3000*n

    elif (x==3):

        print ("you have choose room Class C")

        self.s=2000*n

    elif (x==4):
```

```python
        print ("you have choose room Class D")

        self.s=1000*n

    else:

        print ("please choose a room")

    print ("your choosen room rent is =",self.s,"\n")
```

4. Food Module

In this module displayed the list of foods and their specific price to be order by the customer.

```python
def foodpurchased(self):

    print("*****RESTAURANT MENU*****")

    print("1.Dessert----->100","2.Drinks----->50","3.Breakfast--->90","4.Lunch---->110","5.Dinner--
->150","6.Exit")

    while (1):

        c=int(input("Enter the number of your choice:"))

        if (c==1):
            d=int(input("Enter the quantity:"))
            self.r=self.r+100*d

        elif (c==2):
            d=int(input("Enter the quantity:"))
            self.r=self.r+50*d

        elif (c==3):
            d=int(input("Enter the quantity:"))
            self.r=self.r+90*d

        elif (c==4):
            d=int(input("Enter the quantity:"))
            self.r=self.r+110*d
```

```python
        elif (c==5):
            d=int(input("Enter the quantity:"))
            self.r=self.r+150*d

        elif (c==6):
            break;
        else:
            print("You've Enter an Invalid Key")

    print ("Total food Cost=Rs",self.r,"\n")
```

5. Billing Module

In this module displayed the total purchased of the customer.

```python
def display(self):
    print ("******HOTEL BILL******")
    print ("Customer details:")
    print ("Customer name:",self.name)
    print ("Customer address:",self.address)
    print ("Check in date:",self.cindate)
    print ("Check out date",self.coutdate)
    print ("Room no.",self.rno)
    print ("Your Room rent is:",self.s)
    print ("Your Food bill is:",self.r)

    self.rt=self.s+self.t+self.p+self.r

    print ("Your sub total Purchased is:",self.rt)
    print ("Additional Service Charges is",self.a)
    print ("Your grandtotal Purchased is:",self.rt+self.a,"\n")
    self.rno+=1
```