```
import datetime
import math
class car_rent:
   '''This is a module created for an online car rental platform'''
   def __init__(self, stock=0):
   #Inputting the available stock
       self.stock=stock
   def rent_car(self):
       self.x = int(input("\n Enter the car quantity requirement \n ")) #Getting the quantity from user
       if self.x <= 0: #Returns the message if quantity entered is in negative or zero</pre>
           print("Enter a valid quantity")
       elif self.x > self.stock:
           print("Your requirement exceed our stock quantity! Available stock is", self.stock)
           self.stock -=self.x
           print ("\n Requested car quantity is available for rent. Please proceed! \n")
   def display_all(self): #For displaying the stock
           print("\n \n The Cars available for rent is {}. In case of additional requirement you can book the same.". format(self.stock))
   def return_car(self):
       print ("\n MENU FOR RETURNING CARS \n")
       print("-----")
       print(" \n Press 1 for car taken on hourly basis \n Press 2 for car taken on daily basis \n Press 3 for car taken on weekly basis")
       self.p = int(input("\n Please enter your requirement "))
       self.r2 = datetime.datetime.now() # For storing the current date for calculating the return period
       self.r3 = input("\n\n Enter the date of renting car in YYYY-MM-DD format: ") #Inputting date of availement from customer
       self.dateformat = "%Y-%m-%d" #converting the same to date variable
       self.r1 = datetime.datetime.strptime(self.r3, self.dateformat)
       self.r = self.r2 - self.r1
       if self.p not in [1, 2, 3]: #For restricting the input
           print("Enter valid input")
       else:
           self.q = int(input("\n Number of cars to be returned\n "))
           print("\n \t\t ABC CAR RENTAL SERVICES \t\t") #Generating the billprint ("------
       if self.p == 1:
           self.rent_time = math.ceil((self.r.total_seconds()) / (60 * 60))
           self.a= self.q * self.rent_time * 100
           print("\n You have availed the service for ", self.rent_time, "hrs. \n The total amount to be paid is Rs.", self.q * self.rent_time * 10
       elif self.p == 2:
           self.rent_time = math.ceil((self.r.total_seconds()) / (24 * 60 * 60))
           self.a=self.q * self.rent_time * 2400
           print("\n You have availed the service for ", self.rent_time, "days. \n The total amount to be paid is Rs.", self.q * self.rent_time * 2
       elif self.p == 3:
           self.rent_time = math.ceil((self.r.total_seconds()) / (7 * 24 * 60 * 60))
           self.a = self.q * self.rent_time * 15000
           print("\n You have availed the service for ", self.rent_time, "weeks. \n The total amount to be paid is Rs.", self.q * self.rent_time *
       self.stock += self.q
   def return_display(self):
       print("\n \tPayment Details")
       print("\n----")
       print("\n Cars to be returned : ", self.q)
       print("\n Rental Period :", self.rent_time)
       print("\n Total Amount to be paid : Rs.", self.a)
       print("\n \t Thank you for using our service. \n We have {} available cars for rent. You can avail the services anytime!!! ". format(self.st
class customer():
   def __init__(self):
       self.name = input ("\n Enter your name \n ")
       self.place = input ("\n Enter place \n ")
       self.ph_no = input("\n Enter your ph number\n ")
       self.email_ID = input ("\n Enter your email ID \n")
   def details(self):
       print ("\n Customer details are :\n\t Name :{} \n\t ph_no : {} \n\t Email ID : {}".format(self.name,self.place,self.ph_no,se
   def return_display(self):
       print("\n \tCustomer Details")
       print("\n----")
       print("\n Customer Name :\t", self.name)
       print("\n Place :\t", self.place)
       print("\n Contact details:\t", self.email_ID,self.ph_no)
       import Car_Rental
from datetime import datetime
import math
class car_for_rent:
   def __init__(self):
       c=Car_Rental.car_rent(100)
       print ("\n \t Welcome to ABC Car Rental Services. \n Please provide an input: \n 1. Rent on hourly basis \n 2. Rent on daily basis \n 3. Ren
       self.p = int(input("\n Enter your choice "))
       if self.p != 1 and self.p != 2 and self.p != 3 and self.p !=4:
           print("\n Enter valid input")
       elif self.p == 1 or self.p == 2 or self.p == 3:
           c.rent_car()
           d=Car_Rental.customer()
           d.details()
           self.r1= datetime.now() #storing the rent date to a variable
           print("-"*50)
           print("YOUR RENTAL CAR IS CONFIRMED")
       if self.p == 1:
           print ("\n Dear {}, your request is placed successfully on {}. \n The rent period selected is on hourly basis, at the rate of Rs.100 per
       elif self.p == 2:
           print ("\n Dear {}, your request is placed successfully on {}. \n The rent period selected is on daily basis, at the rate of Rs.2400 per
       elif self.p == 3:
           print ("\n Dear {}, your request is placed successfully on {}. \n The rent period selected is on weekly basis, at the rate of Rs.15,000
           print("\n \t Thankyou for partnering with us")
           c.display_all()
       elif self.p == 4:
           d=rentclass.customer()
           self.r2= datetime.now()
           c.return_car()
           d.return_display()
           c.return_display()
a=car_for_rent()
        Welcome to ABC Car Rental Services.
Please provide an input:
1. Rent on hourly basis
2. Rent on daily basis
3. Rent on weekly basis.
4. Return the car
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Enter your choice 2
Enter the car quantity requirement
 Requested car quantity is available for rent. Please proceed!
 Enter your name
 Tina
 Enter place
 Chennai
 Enter your ph number
8956732463
Enter your email ID
abc123@gmail.com
```

Dear Tina, your request is placed successfully on 2024-02-19 13:13:49.012778. The rent period selected is on daily basis, at the rate of Rs.2400 per day

Customer details are : Name :Tina Place : Chennai ph_no: 8956732463

YOUR RENTAL CAR IS CONFIRMED

Email ID : abc123@gmail.com