CAR MODULE

```
import datetime
import math
class cars:
  confirmation_time="
  def __init__(self,available_cars):
    self.available_cars=available_cars
  def display_cars(self):
    print('Available no. of cars : ',self.available_cars)
  def duration(self,rental_mode,confirmation_time):
    rental_mode_list=['HOURLY','DAILY','WEEKLY']
    current_time=datetime.datetime.now()
    if (rental_mode.upper()) not in rental_mode_list:
      print('Invalid rental mode')
      return
    if rental_mode.upper()=='HOURLY':
      rental_time=math.ceil((current_time-confirmation_time).total_seconds()/3600)
    if rental_mode.upper()=='DAILY':
      rental_time=math.ceil((current_time-confirmation_time).days)+1
    if rental_mode.upper()=='WEEKLY':
      rental_time=math.ceil((current_time-confirmation_time).days/7)
    return rental_time
  def rent_car(self,no_of_cars,rental_mode,req_time):
    if(no_of_cars>0 and no_of_cars<=self.available_cars):</pre>
      self.available_cars=self.available_cars-no_of_cars
      cars.confirmation_time=req_time
      print('Thank you. You have rented {} cars on {} basis',no_of_cars,rental_mode)
    else:
      print('Not enough cars available. Try after some time')
  def bill(self,no_of_cars,rental_mode):
```

```
a=self.duration(rental_mode,cars.confirmation_time)
self.available_cars=self.available_cars+no_of_cars
if rental_mode.upper()=='HOURLY':
    rental_price=a*no_of_cars*50
if rental_mode.upper()=='DAILY':
    rental_price=a*no_of_cars*1000
if rental_mode.upper()=='WEEKLY':
    rental_price=a*no_of_cars*5000
print('Time of Order:',cars.confirmation_time)
print('Time of Return:',datetime.datetime.now())
print('Time Duration:',a)
print('Rental mode:',rental_mode)
print('No. of cars on rent:',no_of_cars)
print('Total rent:', rental_price)
```

CUSTOMER MODULE

```
import datetime
from CarRental import cars
class customers:
  rental_mode="
  def __init__(self):
    pass
  def request_car(self, car_obj):
    no_of_cars = int(input("How many cars would you like to rent ?"))
    if (no_of_cars>0):
      customers.rental_mode = input("How would you like to rent car - Hourly/Daily/Weekly ?")
      car_obj.rent_car(no_of_cars,customers.rental_mode,datetime.datetime.now())
    else:
      print('Enter valid Number of cars.')
  def return_car(self, car_obj):
    no_of_cars = int(input("How many cars would you like to return ?"))
    car_obj.bill(no_of_cars,customers.rental_mode)
```

<u>MAIN</u>

```
from Customera import customers
def main():
  car_obj=cars(5)
  customer_obj=customers()
  while True:
    print("Welcome to Car Rental System..")
    print("1.Display availble cars")
    print("2.Rent cars")
    print("3.Return cars")
    print("4.Exit")
    choice = int(input("Enter your choice:"))
    if(choice == 1):
      car_obj.display_cars()
    elif(choice == 2):
      customer_obj.request_car(car_obj)
    elif(choice == 3):
      customer_obj.return_car(car_obj)
    elif(choice == 4):
      break
    else:
      print('Invalid Choice. Please enter number between 1-4')
if __name__ == "__main__":
  main()
```

from CarRental import cars