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# Car Rental Plateform

from datetime import datetime

class CarRental:
  def __init__ (self, stock = 0):
    self.stock = stock # number of available cars
  def display_stock(self):
    print(f'Availble Cars : {self.stock}')

  # Rent car on hourly basis
  def Rent_hourly(self,n):
    if n<=0 or n> self.stock:
      print('invalid number of cars requested')
      return None
    else:
      self.stock = self.stock - n
      rental_time = datetime.now()
      print(f'Rented cars {n} on hourly basis at {rental_time}')
      return rental_time
  #Rent car on the daily basis
  def Rent_daily(self, n):
    if n<=0 or n>self.stock:
      print('invalid number of cars requested')
      return None
    else:
      self.stock = self.stock - n
      rental_time = datetime.now()
      print(f'Rented cars {n} on daily basis at {rental_time}')
      return rental_time
  # Rent car on the weekly basis
  def Rent_weekly(self, n):
    if n<= 0 or n> self.stock:
      print('invalid number of cars requested')
      return None
    else:
      self.stock = self.stock - n
      rental_time = datetime.now()
      print(f'Rented cars {n} on weekly basis at {rental_time}')
  # Return Rental_car
  def Return_car(self,request):
    rental_time,rental_basis, num_cars = request
    bill = 0

    if rental_time and rental_basis and num_cars:
      self.stock = self.stock + num_cars
      now = datetime.now()
      rental_period = now - rental_time

      if rental_basis == 1:
        bill = (rental_period.second/3600)*10*num_cars
      elif rental_basis ==2:
        bill = rental_period.days * 50 * num_cars
      elif rental_basis ==2:
        bill = (rental_period.days/7) * 200 * num_cars
      print(f'Thank you for returning the car. bill = {round(bill,2)}')
      return round(bill,2)
    else:
      print('incomplete rental information')
      return None
class Customer:
  def __init__ (self):
    self.cars = 0
    self.rental_basis = 0
    self.rental_time = 0
  def request_car(self):
    try:
      self.cars = int(input("How many cars would you like to rent?"))
      if self.cars<1:
        raise ValueError
    except ValueError:
      print('Invalid Input. Please input a positive number')
      return -1
    return self.cars
  def return_car(self):
    if self.rental_cars and self.rental_basis and self.cars:
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      return self.rental_time,self.rental_basis,self.cars
    else:
      return 0,0,0
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```
from google.colab import drive
drive.mount('/content/drive')
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Mounted at /content/drive
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import sys
sys.path.append('/content/drive/MyDrive/car_rental')
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```
from car_rental import CarRental,Customer

def main():
  car_rental = CarRental(50)
  customer = Customer()

  while True:
      print("""
      ====== Car Rental Menu ======
      1. Display available cars
      2. Request car on hourly basis ₹10/hr
      3. Request car on daily basis ₹50/day
      4. Request car on weekly basis ₹200/week
      5. Return car
      6. Exit
      """)
      try:
        choice = int(input('Enter your choice:'))
      except ValueError:
        print('Invalid input. Please enter a number between 1-6.')
        continue
      if choice ==1:
        car_rental.display_stock()

      elif choice ==2:
        customer_request = customer.request_car()
        if customer_request != -1:
          customer.rental_time = car_rental.rent_hourly(customer_request)
          customer.rental_basis = 1
          customer.cars = customer_request
      elif choice == 3:
            customer_request = customer.request_car()
            if customer_request != -1:
                customer.rental_time = car_rental.rent_daily(customer_request)
                customer.rental_basis = 2
                customer.cars = customer_request

      elif choice == 4:
          customer_request = customer.request_car()
          if customer_request != -1:
              customer.rental_time = car_rental.rent_weekly(customer_request)
              customer.rental_basis = 3
              customer.cars = customer_request
      elif choice == 5:
          request = customer.return_car()
          car_rental.return_car(request)
          customer.rental_basis, customer.rental_time, customer.cars = 0, 0, 0

      elif choice == 6:
          print("Thank you for using the car rental service!")
          break

      else:
          print("Invalid option. Please select a number between 1 and 6.")


main()
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```
      ====== Car Rental Menu ======
      1. Display available cars
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      2. Request car on hourly basis ₹10/hr
      3. Request car on daily basis ₹50/day
      4. Request car on weekly basis ₹200/week
      5. Return car
      6. Exit

Enter your choice:1
Available cars: 50

      ====== Car Rental Menu ======
      1. Display available cars
      2. Request car on hourly basis ₹10/hr
      3. Request car on daily basis ₹50/day
      4. Request car on weekly basis ₹200/week
      5. Return car
      6. Exit

Enter your choice:2
How many cars would you like to rent? 5
Rented 5 car(s) on hourly basis at 2025-08-04 10:18:47.661011

      ====== Car Rental Menu ======
      1. Display available cars
      2. Request car on hourly basis ₹10/hr
      3. Request car on daily basis ₹50/day
      4. Request car on weekly basis ₹200/week
      5. Return car
      6. Exit

Enter your choice:1
Available cars: 45

      ====== Car Rental Menu ======
      1. Display available cars
      2. Request car on hourly basis ₹10/hr
      3. Request car on daily basis ₹50/day
      4. Request car on weekly basis ₹200/week
      5. Return car
      6. Exit

Enter your choice:5
Thanks for returning your car(s). Bill Amount: ₹0.11

      ====== Car Rental Menu ======
      1. Display available cars
      2. Request car on hourly basis ₹10/hr
      3. Request car on daily basis ₹50/day
      4. Request car on weekly basis ₹200/week
      5. Return car
      6. Exit

Enter your choice:1
Available cars: 50
```

Start coding or generate with AI.