Parking Ticket Generator
(Final Project)

This program demonstrates a parking scenario. Its main purpose is to display a parking ticket for a car that violated the number of minutes parked. It is calculated from minutes parked and minutes paid following a preset fine guideline.

It displays a police officer name and badge and a parked car's information regarding make model color and license plate number.

Incorporate three cars information and see if they will get a ticket/fine or not.

It shows how four classes collaborate in initializing values and help to incorporate their uses in the main function.

The program shows the base fine hourly fine and total fine for a violating car.

ParkingTicket.h

- calculate parking ticket fine with minutesParked and minsOfParkTime (minutes purchased at the meter)

- also gets hourly fine from fine (total) - baseFine ($25)

ParkedCar.h
- establishes a parked car's different parts (make model color license plate number and minutes parked)
- constructors
- setters and getters

PoliceOfficer.h

- just member functions police name and badge number

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ParkingMeter.h

- Gets the number of parking minutes purchased (minsOfParkTime)
- Uses member functions to access the data member

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Main
- Prints the parked car info the police info the minutes parked and minutes paid and the fine summary only if (minutesParked - minsOfParkTime) > 0
- Otherwise just print no parking violation for that car