Sarah McCulley

PLD6B

class Cars

public static Main()

//Declarations

const string END = end

string name

char carType

num rentalDays

string carDescrip[8] = FordMustang, Ford Model T, LincolnContinental, Lexus, BMW, MercerRunabout, MercedesBenz, CadillacV16

num dailyFee[8] = 65, 95, 135, 140, 160, 165, 200, 205

char Code[8] = A, A, L, L, L, A, L, A

bool[8]

input(Please enter your name. Enter "end" when you are finished.)

while name != END

    input(Please enter the desired car type. A for antique and L for luxury)

    input(Please enter the number of days for the rental.)

    FulfillRequest(string name, char carType, num rentalDays, string[] carDescrip, num[] dailyFee, char[] Code, bool[] isRented)

    CalculateContractAmount(num dailyFee, num rentalDays, char carType)

    output("The amount you owe for your contract is {0}.", contract amount)

    bool allRented = true;
    for i = 0; i < 8; i = i + 1
        if(isRented[i] == false)
        {
            allRented = false;
        }
    }
    if (allRented == true)
    {
        output("There are no cars available at this time.")

```
            name = END;
        }
        else
        {
            input(Please enter your name.  Enter “end” when you are finished.)
        }
endwhile


public static num FulfillRequest(string name, char carType, num rentalDays, string[] carDescrip, num[] dailyFee, char[] Code, bool[] isRented)

search for antique or L & isRented = false

for i = 0; i < 8; i = i + 1
        if (Code[i] = carType && isRented[i] = false)
        {
        output “Your car will be {0} and the rental fee is {1}.”, carDescrip[i], dailyFee[i]
        isRented = true
        dailyFee = dailyFee[i]
        }
        else
        {
        output “There are no available cars that match your criteria.”
        dailyFee = 0
        }
        return dailyFee


        public static num CalculateContractAmount(num dailyFee, num rentalDays, char carType)
        num const ANTIQUE_TAX = .06
        num const LUXURY_TAX = .08
        if(carType = A)
        {
            num tax = ANTIQUE_TAX;
        }
```

```
        else
        {
                num tax = LUXURY_TAX;
        }
        num contractAmount = (dailyFee * rentalDays) * (1 + tax);
        return contractAmount




}
```