LAB211 Assignment

Type: Short Assignment Code: J1.S.P0066

LOC: 73 Slot(s): 1

Title

Car showroom.

Background

N/A

Program Specifications

There are three types of car in the showroom:

AUDI:

Available colors: WHITE, YELLOW, ORANGE

Price: 5500, 3000, 4500 \$Sold on: FRIDAY SUNDAY MONDAY

MERCEDES:

- Available colors: GREEN, BLUE, PURPLE

- Price: 5000, 6000, 8500 \$

- Sold on: TUESDAY, SATURDAY, WEDNESDAY

BMW:

- Available colors: PINK, RED, BROWN

- Price: 2500, 3000, 3500 \$

- Sold on: MONDAY, SUNDAY, THURSDAY

Write a program to help salesmen to check that the customer's needs match the current cars showroom is selling.

- Given that customers can choose unpainted car to get \$100 discount.
- Customers can choose other options which will be added to the final price of the car.

Function details:

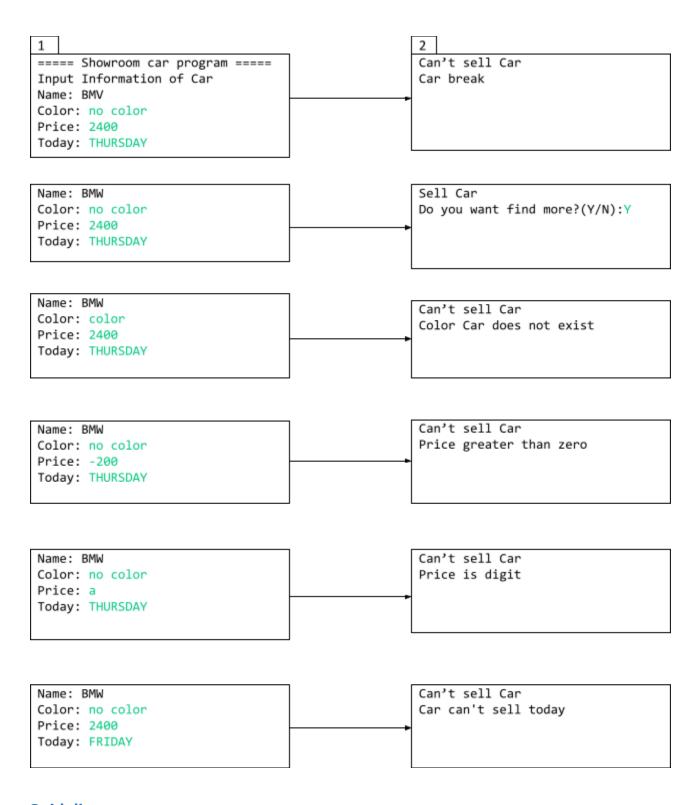
Function 1: Display Gui And Input Data.

- User runs the program. The program prompts user to input data.
- Auto next Function 2.

Function 2: Perform function

- Program displays information of customer's request, and check if they match the cars in showroom?
- Display message and exit program.
- Sort by price

Expectation of User interface:



Guidelines

Student must implement methods

- checkCar
- getPrices
- getColors
- getDaySells

in startup code.

Hint

- Create ExceptionCar class which inherits Exception class; pass the message content to the constructor.
- Create Car Enum:
 - Create methods getPrices, getColors, getDaySells which return the List of sale information.
 - Create method Car getCar(String car)
- Create Enum Day:
 - List all days in a week
 - Create method Day getDay(String day), if day is not a Day Enum then return null.
- Create Enum Color:
 - o List all colors of car in showroom, and "no color" option.
 - o Create method Color getColor(String color), if color is not a Color Enum then return null.
- Create method checkCar whose input is the information of customer's request. It validates the information and return the Car Enum if matched, if not it throws the ExceptionCar.
- In Main, use scanner to enter the car information
 - o If name of car is not in Car Enum, enter null value using getCar method.
 - o If color of car is not in Color Enum, enter null value using getColor method.
 - o If the day is not in Day Enum, enter null value using getDay method.

Function 1: Validate car sale information

- Method name: public Car checkCar(Car car, String color, Day day, String price) thows ExceptionCar
 - Input:

car: Enum Car

color: Enum Color

day: Enum Day

price: Prices of car

Return:

Enum Car

ExceptionCar