Academic Year 2023/2024
Badji Mokhtar Annaba university
Bachelor Of Computer Science - First Year - S1
Algorithmics and Data Structures

TP 5 (enumerations and structures)

Exercise 1 :

Create an enumeration called `DaysOfWeek` representing the days of the week (Sunday, Monday, Tuesday, etc.). Write a c program that prompts the user for a day number (1 for Sunday, 2 for Monday, etc.) and displays the corresponding day.

Exercice 2 :

Define the data type 'car' that contains the attributes: id, brand, model, color (blue, green, red), year, and price.

1- Write a c program that uses the type car, and the array structure to fill the information of n cars.
   Ex: (car 1: id=1, brand=ford, model=fiesta, color =blue, year=2012, price=1200000 DA;
   car 2: id=2, brand= Peugeot, model=308, color =red, year=2022, price=1300000 DA;
   car 3: id=3, brand=Peugeot, model=208, color =blue, red=2019, price=1100000 DA;)
2- Display the mean of car prices.
3- Display the price and the model of the most expensive car.
4- Allow the user to update the price of a specific car (accessed by id).
5- Sort and display the list of cars according to their price (selection sort).

Note: The exercises in blue are assigned as homework and will be graded