Code : CS- COMP6364-Var01

Learning Outcomes
- Differentiate between conventional programming and OOP

Topic
- Session 02

Sub Topics
- Selection
- Repetition

Soal
Case

An automotive company needs a program that checks gasoline usages. This program can be used to check the gasoline usages based on how fast the car move. As a programmer, you are asked to create the program. Here are some rules about the program:

- At the beginning, the program will set the gasoline to **100** liters.
- Show the main menus, such as:
    1. **Start Driving**
    2. **Rest**
    3. **Exit**
- If user chooses "***Start Driving***", then the program will:
    - Show the speed (km/hour) with **random 1 – 100**.
    - If speed is **less than 50 km/hour**, gasoline will be reduced by **20** liters.
    - If speed is **equals or larger than 50 km/hour**, gasoline will be reduced by **40** liters.
    - If the gasoline is **empty**, then the program will show "**Your gasoline is not enough to run the car…**"
- If user chooses "**Rest**", then the program will:
    - If the gasoline is **full**, then the program will show "**Your gasoline is full…**", else the gasoline will be increased by **20** liters.
- If user chooses "***Exit***", then the program will end.

For more details, please run the .EXE file.

Print screen of main menu

```
Your gasoline's car: 100 liters
=======================
1. Start driving
2. Rest
3. Exit
Choose:
```

Print screen of "Start Driving"

```
Your speed : 51 km/hour
You have spent 40 liters gasoline


Press enter to return to main menu..
```

If the gasoline is empty, then the program will show "*Your gasoline is not enough to run the car…*"

```
Your gasoline is not enough to run the car...

Press enter to return to main menu..
```

Print screen of "Rest"

```
Successfully recharge 20 liters gasoline...

Press enter to return to main menu..
```

If the gasoline is full, then the program will show "*Your gasoline is full…*"

```
Your gasoline is full...
```

If anyone does not understand, ask your assistant!