The supplied Java code is for a car **cruise control** system. This cruise control system consists of the following parts to control the car speed: **Brake**, **Engine**, and **Shaft**.

Those parts may be purchased from **GM** and/or **Chevy** companies.

The software team needs to test the creation of cruise control with the following **combinations**:

|  |  |  |  |
| --- | --- | --- | --- |
| Allowed Parts Combination | **Brake** | **Engine** | **Shaft** |
| First combination | ***GM*** | ***GM*** | ***Chevy*** |
| Second combination | ***GM*** | ***GM*** | ***GM*** |

Use **Abstract Factory design pattern** to ensure the required combination when creating the cruise control objects:

1. [15%] Draw Your design as UML class diagram.
2. [85%] Change the code to create the cruise control objects with the above two combination.

***Use the main() method for unit testing***.