COMP303 Assignment6

Actions:

I made Action an abstract class. It has an abstract method anAction(). Every Action object needs to override this method to implement its own functionality. Action objects can be created within class WallE. A complex action defines its anAction() by executing basic actions. The class Action has a boolean field recharge. It decides whether check the battery_charge or always recharge before execution.

Programs:

Computation:

The client needs to define an algorithm within interface Computation to decide if an action is involved in the computation. The program will use Computation to check every basic action and return a list of relevant actions.

Logging System:

I used the observer design pattern for this part. A program has a logging system.

When an action is executed, it will notify the logging system by calling statement().

In the class LoggingSystem, the statement will print the updated information.