CSCI4448 Project 3

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Language: Java	
Environment:	

Java.utility. Description:

Atom IDE

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This is a project to simulate a hardware rental rent store that includes customers, tools, and option tools.

Assumptions:

- 1. Each customer would rent hardwares by orders (Paint 0 Paint 1 Yardwork 0 Yardwork 1 Yardwork 2 Yardwork 3).
- 2. Each customer has 50% possibility to rent hardwares everyday.
- 3. The price of each tool per day: 15 dollar for paint tool, 25 dollar for Plumbing tool, 30 dollar for concrete tool, 60 dollar for yardwork, and 50 dollar for woodwork.
- 4. The price of each optional tool: 1 dollar for extension cord, 2 dollar for accessory kit, and 3 dollar for protective gear package.

References:

https://en.wikipedia.org/wiki/Strategy_pattern https://www.geeksforgeeks.org/oops-object-oriented-design/

https://www.geeksforgeeks.org/inheritance-in-java/

Patterns:

Strategy pattern on return tools and rent tools. Factory pattern for instantiating tools Decorator pattern for option tools.

UML:

