**package** ObserverPatternExample;

**public** **interface** Observer {

**void** update(**float** price);

}

**package** ObserverPatternExample;

**public** **interface** Stock {

**void** registerObserver(Observer o);

**void** removeObserver(Observer o);

**void** notifyObservers();

}

**package** ObserverPatternExample;

**import** java.util.ArrayList;

**import** java.util.List;

**public** **class** StockMarket **implements** Stock {

**private** List<Observer> observers = **new** ArrayList<>();

**private** **float** price;

**public** **void** registerObserver(Observer o) {

observers.add(o);

}

**public** **void** removeObserver(Observer o) {

observers.remove(o);

}

**public** **void** notifyObservers() {

**for** (Observer o : observers) {

o.update(price);

}

}

**public** **void** setPrice(**float** price) {

**this**.price = price;

notifyObservers();

}

}

**package** ObserverPatternExample;

**public** **class** WebApp **implements** Observer {

**public** **void** update(**float** price) {

System.***out***.println("Web App: Stock Price updated to " + price);

}

}

**package** ObserverPatternExample;

**public** **class** MobileApp **implements** Observer {

**public** **void** update(**float** price) {

System.***out***.println("Mobile App: Stock Price updated to " + price);

}

}

**package** ObserverPatternExample;

**public** **class** Main {

**public** **static** **void** main(String[] args) {

StockMarket market = **new** StockMarket();

Observer mobileApp = **new** MobileApp();

Observer webApp = **new** WebApp();

market.registerObserver(mobileApp);

market.registerObserver(webApp);

market.setPrice(100.5f);

System.***out***.println("---");

market.setPrice(105.75f);

}

}

