import java.util.ArrayList;

import java.util.List;

interface Observer {

void update(String stockPrice);

}

interface Stock {

void registerObserver(Observer observer);

void removeObserver(Observer observer);

void notifyObservers();

}

class StockMarket implements Stock {

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

private String stockPrice;

@Override

public void registerObserver(Observer observer) {

observers.add(observer);

}

@Override

public void removeObserver(Observer observer) {

observers.remove(observer);

}

@Override

public void notifyObservers() {

for (Observer observer : observers) {

observer.update(stockPrice);

}

}

public void setStockPrice(String stockPrice) {

this.stockPrice = stockPrice;

notifyObservers();

}

}

class MobileApp implements Observer {

@Override

public void update(String stockPrice) {

System.out.println("MobileApp received stock price update: " + stockPrice);

}

}

class WebApp implements Observer {

@Override

public void update(String stockPrice) {

System.out.println("WebApp received stock price update: " + stockPrice);

}

}

public class Main {

public static void main(String[] args) {

StockMarket stockMarket = new StockMarket();

Observer mobileApp = new MobileApp();

Observer webApp = new WebApp();

stockMarket.registerObserver(mobileApp);

stockMarket.registerObserver(webApp);

stockMarket.setStockPrice("1200");

stockMarket.setStockPrice("1250");

}

}

OUTPUT:

