Exercise 1 Using Mockito to mock the StockBroker class

You have the code for a Stock class (given). Stock objects store the value that the stock was bought for. You have written the code for the StockListener class(given). When the StockListener is called (takeAction method), it uses the StockBroker to first of all get a quote for the Stock (getQuote). Then it will use the Stock broker to either buy stock (buy) or sell stock (sell) depending on whether the price has increased or decreased. You don’t have the code for the StockBroker, only the interface.

Write a test class StockListenerTest that tests StockListener by mocking StockBroker.

Verify that the buy and sell methods are called on StockBroker.

**package** com.ait.stock;

**import** **static** org.mockito.Mockito.*mock*;

**import** **static** org.mockito.Mockito.*verify*;

**import** **static** org.mockito.Mockito.*when*;

**import** org.junit.jupiter.api.BeforeEach;

**import** org.junit.jupiter.api.Test;

**public** **class** StockListenerTest {

//TO DO

@Before

**public** **void** setup() {

//TO DO

}

@Test

**public** **void** sellStocksWhenPriceGoesUp(){

*//To DO*

}

@Test

**public** **void** buyStocksWhenPriceGoesDown() {

//To DO

}

}