CECS 475

Lab Assignment 1

Due date: Wednesday, February 21

40 points

In this lab assignment, you create an application that models the ups and downs of a particular stock. The value of a stock is assumed to change by plus or minus a specified number of units after every time unit (such as one hour). A notification is generated each time a stock changes more than a specified number of units above or below its initial value. A collection of brokers who control the stock must receive this notification. The range within which the stock can change every time unit and the threshold above or below which collection of brokers who control the stock must be notified are specified when the stock is created (using its constructor).

You shall design and implement a C# application that satisfies the specification given above. This application involves .NET EventHandler events, threads, and text file processing.

When an event of this type is fired, the stock's name, initial values, current values, and the number of changes in value can be sent to the listener. The sending information is sent to the console window and a text file. You are required to use built-in .NET EventHandler delegate in your solution.

Create the class Stock with the following attributes:

- Stock name
- Stock initial value
- Maximum change (the range within a stock can change every time unit)
- Notification threshold (the threshold above or below which the collection of brokers who control the stock must be notified)

You are required to implement other members in the class Stock that are needed. When a stock object is created, a thread is started. This thread causes the stock's value to be modified every 500 milliseconds. If its value changes from its initial value by more than the specified notification threshold, an event method is invoked. This invokes the stock Event and multicasts a notification to all listeners who have registered with stock Event.

Create the class StockBroker which has fields broker name and stocks, a List of Stock. This latter field is not used in this application but could be used to obtain the stocks currently controlled by a given broker. The addStock method registers the Notify listerner with the stock (in addition to adding it to the list of stocks held by the broker). This Notify method outputs to the console the name, value, and the number of changes of the stock whose value is out of the range given the stock's notification threshold.

The listing below presents a main driver class, StockApplication. (DO NOT MODIFY THE Main function).

```
static void Main(string[] args)
Stock stock1 = new Stock("Technology",160, 5, 15);
Stock stock2 = new Stock("Retail", 30, 2, 6);
Stock stock3 = new Stock("Banking", 90, 4, 10);
Stock stock4 = new Stock("Commodity", 500, 20, 50);
StockBroker b1 = new StockBroker("Broker 1");
b1.AddStock(stock1);
b1.AddStock(stock2);
StockBroker b2 = new StockBroker("Broker 2");
b2.AddStock(stock1);
b2.AddStock(stock3);
b2.AddStock(stock4);
StockBroker b3 = new StockBroker("Broker 3");
b3.AddStock(stock1);
b3.AddStock(stock3);
StockBroker b4 = new StockBroker("Broker 4");
b4.AddStock(stock1);
b4.AddStock(stock2);
b4.AddStock(stock3);
b4.AddStock(stock4);
}
```

The output sample (All the column must be left alignment)l:

Broker	Stock	Value	Changes Date and Time
Broker 2	Banking	102	5 2/2/2022 1:23:25 PM
Broker 3	Banking	102	5 2/2/2022 1:23:25 PM
Broker 4	Banking	102	5 2/2/2022 1:23:25 PM
Broker 2	Commodity	559	5 2/2/2022 1:23:25 PM
Broker 4	Commodity	559	5 2/2/2022 1:23:25 PM
Broker 1	Technology	176	6 2/2/2022 1:23:25 PM
Broker 2	Technology	176	6 2/2/2022 1:23:25 PM
Broker 3	Technology	176	6 2/2/2022 1:23:25 PM
Broker 4	Technology	176	6 2/2/2022 1:23:25 PM
Broker 2	Commodity	562	6 2/2/2022 1:23:25 PM
Broker 4	Commodity	562	6 2/2/2022 1:23:25 PM
Broker 2	Banking	104	6 2/2/2022 1:23:25 PM
Broker 3	Banking	104	6 2/2/2022 1:23:25 PM

Broker 4	Banking	104	6	2/2/2022 1:23:25 PM
Broker 1	Retail 3'		7	2/2/2022 1:23:26 PM
Broker 4	Retail 3'	7	7	2/2/2022 1:23:26 PM
Broker 1	Technology	179	7	2/2/2022 1:23:26 PM
Broker 2	Technology	179	7	2/2/2022 1:23:26 PM
Broker 3	Technology	179	7	2/2/2022 1:23:26 PM
Broker 4	Technology	179	7	2/2/2022 1:23:26 PM
Broker 2	Commodity	569	7	2/2/2022 1:23:26 PM
Broker 4	Commodity	569	7	2/2/2022 1:23:26 PM
Broker 2	Banking	105	7	2/2/2022 1:23:26 PM
Broker 3	Banking	105	7	2/2/2022 1:23:26 PM
Broker 4	Banking	105	7	2/2/2022 1:23:26 PM
Broker 1	Retail 38	8	8	2/2/2022 1:23:26 PM
Broker 4	Retail 38	8	8	2/2/2022 1:23:26 PM
Broker 1	Technology	182	8	2/2/2022 1:23:26 PM
Broker 2	Technology	182	8	2/2/2022 1:23:26 PM
Broker 3	Technology	182	8	2/2/2022 1:23:26 PM
Broker 4	Technology	182	8	2/2/2022 1:23:26 PM
Broker 2	Commodity	571	8	
Broker 4	Commodity	571	8	
Broker 2	Banking	107	8	2/2/2022 1:23:26 PM
Broker 3	Banking	107	8	2/2/2022 1:23:26 PM
Broker 4	Banking	107	8	2/2/2022 1:23:26 PM
Broker 1	Retail 39		9	2/2/2022 1:23:27 PM
			9	2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM
Broker 4			-	
Broker 1	Technology	185	9	2/2/2022 1:23:27 PM
Broker 2	Technology	185	9	2/2/2022 1:23:27 PM
Broker 3	Technology	185	9	2/2/2022 1:23:27 PM
Broker 4	Technology	185	9	2/2/2022 1:23:27 PM
Broker 2	Commodity	573	9	0/0/0000 / 00 05 53 5
Broker 4				
	Commodity	573	9	2/2/2022 1:23:27 PM
Broker 2	Banking	109		2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM
Broker 2 Broker 3	Banking Banking	109 109	9 9 9	2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM
Broker 2	Banking Banking Banking	109	9 9	2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM
Broker 2 Broker 3	Banking Banking	109 109 109	9 9 9	2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM
Broker 2 Broker 3 Broker 4	Banking Banking Banking	109 109 109 0	9 9 9 9	2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM
Broker 2 Broker 3 Broker 4 Broker 1	Banking Banking Banking Retail 40	109 109 109 0	9 9 9 9	2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM
Broker 2 Broker 3 Broker 4 Broker 1 Broker 4	Banking Banking Banking Retail 40 Retail 40	109 109 109 0	9 9 9 9 10 10	2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 0 2/2/2022 1:23:27 PM
Broker 2 Broker 3 Broker 4 Broker 1 Broker 4 Broker 1	Banking Banking Banking Retail 40 Retail 40 Technology	109 109 109 0 0 188	9 9 9 9 10 10	2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 0 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM
Broker 2 Broker 3 Broker 4 Broker 1 Broker 4 Broker 1 Broker 2	Banking Banking Banking Retail 40 Retail 40 Technology Technology Technology	109 109 109 0 0 188 188	9 9 9 9 10 10	2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 0 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM
Broker 2 Broker 3 Broker 4 Broker 1 Broker 4 Broker 1 Broker 2 Broker 3	Banking Banking Banking Retail 40 Retail 40 Technology Technology Technology Technology	109 109 109 0 0 188 188 188	9 9 9 10 10 10 10	2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 0 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM
Broker 2 Broker 3 Broker 4 Broker 1 Broker 4 Broker 1 Broker 2 Broker 3 Broker 4	Banking Banking Banking Retail 40 Retail 40 Technology Technology Technology Technology Commodity	109 109 109 0 0 188 188 188 188	9 9 9 10 10 10 10 10	2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 0 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 0 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM
Broker 2 Broker 3 Broker 4 Broker 1 Broker 4 Broker 2 Broker 3 Broker 4 Broker 2	Banking Banking Banking Retail 40 Retail 40 Technology Technology Technology Technology Commodity Commodity	109 109 109 0 0 188 188 188 188 581	9 9 9 10 10 10 10 10	2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 0 2/2/2022 1:23:27 PM
Broker 2 Broker 3 Broker 4 Broker 1 Broker 4 Broker 2 Broker 3 Broker 4 Broker 2 Broker 4 Broker 4	Banking Banking Banking Retail 40 Retail 40 Technology Technology Technology Technology Commodity Commodity Banking	109 109 109 0 0 188 188 188 188 581 581	9 9 9 10 10 10 10 10 10	2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 0 2/2/2022 1:23:27 PM
Broker 2 Broker 3 Broker 4 Broker 1 Broker 4 Broker 2 Broker 3 Broker 4 Broker 2 Broker 4 Broker 2 Broker 3 Broker 3	Banking Banking Banking Retail 40 Retail 40 Technology Technology Technology Technology Commodity Commodity Banking Banking	109 109 109 0 188 188 188 188 581 581 111	9 9 9 10 10 10 10 10 11 10 10	2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 0 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM
Broker 2 Broker 3 Broker 4 Broker 1 Broker 1 Broker 2 Broker 3 Broker 4 Broker 2 Broker 4 Broker 2 Broker 2	Banking Banking Banking Retail 40 Retail 40 Technology Technology Technology Technology Commodity Commodity Banking	109 109 109 0 188 188 188 188 581 581 111	9 9 9 10 10 10 10 10 11 11 10	2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 2/2/2022 1:23:27 PM 0 2/2/2022 1:23:27 PM

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Broker 4	Retail 41	11 2/2/2022 1:23:28 PM
Broker 2	Commodity 587	11 2/2/2022 1:23:28 PM
Broker 4	Commodity 587	11 2/2/2022 1:23:28 PM
Broker 1	Technology 189	11 2/2/2022 1:23:28 PM
Broker 2	Technology 189	11 2/2/2022 1:23:28 PM
Broker 3	Technology 189	11 2/2/2022 1:23:28 PM
Broker 4	Technology 189	11 2/2/2022 1:23:28 PM
Broker 2	Banking 114	11 2/2/2022 1:23:28 PM
Broker 3	Banking 114	11 2/2/2022 1:23:28 PM
Broker 4	Banking 114	11 2/2/2022 1:23:28 PM
Broker 1	Retail 42	12 2/2/2022 1:23:28 PM
Broker 4	Retail 42	12 2/2/2022 1:23:28 PM
Broker 2	Commodity 597	12 2/2/2022 1:23:28 PM
Broker 4	Commodity 597	12 2/2/2022 1:23:28 PM
Broker 1	Technology 192	12 2/2/2022 1:23:28 PM
Broker 2	Technology 192	12 2/2/2022 1:23:28 PM
Broker 3	Technology 192	12 2/2/2022 1:23:28 PM
Broker 4	Technology 192	12 2/2/2022 1:23:28 PM
Broker 2	Banking 116	12 2/2/2022 1:23:28 PM
Broker 3	Banking 116	12 2/2/2022 1:23:28 PM
Broker 4	Banking 116	12 2/2/2022 1:23:28 PM
Broker 1	Retail 43	13 2/2/2022 1:23:29 PM
Broker 4	Retail 43	13 2/2/2022 1:23:29 PM
Broker 2		13 2/2/2022 1:23:29 PM
	•	
Broker 4	Commodity 609	13 2/2/2022 1:23:29 PM
Broker 1	Technology 196	13 2/2/2022 1:23:29 PM
Broker 2	Technology 196	13 2/2/2022 1:23:29 PM
Broker 3	Technology 196	13 2/2/2022 1:23:29 PM
Broker 4	Technology 196	13 2/2/2022 1:23:29 PM
Broker 2	Banking 117	13 2/2/2022 1:23:29 PM
Broker 3	Banking 117	13 2/2/2022 1:23:29 PM
Broker 4	Banking 117	13 2/2/2022 1:23:29 PM
Broker 1	Retail 44	14 2/2/2022 1:23:29 PM
Broker 4	Retail 44	14 2/2/2022 1:23:30 PM
Broker 1	Technology 200	14 2/2/2022 1:23:30 PM
Broker 2	Technology 200	14 2/2/2022 1:23:30 PM
Broker 3	Technology 200	14 2/2/2022 1:23:30 PM
Broker 4	Technology 200	14 2/2/2022 1:23:30 PM
Broker 2	Commodity 626	14 2/2/2022 1:23:30 PM
Broker 4	Commodity 626	14 2/2/2022 1:23:30 PM
Broker 2	Banking 120	14 2/2/2022 1:23:30 PM
Broker 3	Banking 120	14 2/2/2022 1:23:30 PM
Broker 4	Banking 120	14 2/2/2022 1:23:30 PM
Broker 1	Retail 45	15 2/2/2022 1:23:31 PM
Broker 4	Retail 45	15 2/2/2022 1:23:31 PM
Broker 2	Commodity 639	15 2/2/2022 1:23:31 PM
DIONEI 7	Commounty 039	13 4/4/2022 1.23.31 PW

Broker 4	Commodity	639	15	2/2/2022 1:23:31 PM
Broker 1	Technology	203	15	2/2/2022 1:23:31 PM
Broker 2	Technology	203	15	2/2/2022 1:23:31 PM
Broker 3	Technology	203	15	2/2/2022 1:23:31 PM
Broker 4	Technology	203	15	2/2/2022 1:23:31 PM
Broker 2	Banking	122	15	2/2/2022 1:23:31 PM
Broker 3	Banking	122	15	2/2/2022 1:23:31 PM
Broker 4	Banking	122	15	2/2/2022 1:23:31 PM
Broker 1	Retail 4	-6	16	2/2/2022 1:23:31 PM
Broker 4	Retail 4	-6	16	2/2/2022 1:23:31 PM
Broker 2	Commodity	651	16	2/2/2022 1:23:31 PM
Broker 4	Commodity	651	16	2/2/2022 1:23:31 PM
Broker 1	Technology	206	16	2/2/2022 1:23:31 PM
Broker 2	Technology	206	16	2/2/2022 1:23:31 PM
Broker 3	Technology	206	16	2/2/2022 1:23:31 PM
Broker 4	Technology	206	16	2/2/2022 1:23:31 PM
Broker 2	Banking	123	16	2/2/2022 1:23:31 PM
Broker 3	Banking	123	16	2/2/2022 1:23:31 PM
Broker 4	Banking	123	16	2/2/2022 1:23:31 PM
Broker 2	Commodity	663	17	
Broker 4	Commodity	663	17	
Broker 1	Technology	210	17	2/2/2022 1:23:40 PM
Broker 2	Technology	210	17	2/2/2022 1:23:40 PM
Broker 3	Technology	210	17	2/2/2022 1:23:40 PM
Broker 4	Technology	210	17	2/2/2022 1:23:40 PM
Broker 1	•	-7	17	2/2/2022 1:23:40 PM
Broker 4		.7	17	2/2/2022 1:23:40 PM
Broker 2		124	17	2/2/2022 1:23:40 PM
	Banking			
Broker 3	Banking	124	17	2/2/2022 1:23:40 PM
Broker 4	Banking	124	17	2/2/2022 1:23:40 PM
Broker 1	Technology	213	18	2/2/2022 1:23:40 PM
Broker 2	Technology	213	18	2/2/2022 1:23:40 PM
Broker 3	Technology	213	18	2/2/2022 1:23:40 PM
Broker 4	Technology	213	18	2/2/2022 1:23:40 PM
Broker 1		-8	18	2/2/2022 1:23:40 PM
Broker 4		.8	18	2/2/2022 1:23:40 PM
Broker 2	Banking	125	18	2/2/2022 1:23:40 PM
Broker 3	Banking	125	18	2/2/2022 1:23:40 PM
Broker 4	Banking	125	18	2/2/2022 1:23:40 PM
Broker 2	Commodity	668	18	
Broker 4	Commodity	668	18	
Broker 1	Technology	215	19	2/2/2022 1:23:41 PM
Broker 2	Technology	215	19	2/2/2022 1:23:41 PM
Broker 3	Technology	215	19	2/2/2022 1:23:41 PM
Broker 4	Technology	215	19	2/2/2022 1:23:41 PM
Broker 2	Commodity	682	19	2/2/2022 1:23:41 PM

Broker 4	Commodity	682	19	
Broker 2	Banking	126	19	2/2/2022 1:23:41 PM
Broker 3	Banking	126	19	2/2/2022 1:23:41 PM
Broker 4	Banking	126	19	2/2/2022 1:23:41 PM
Broker 1	Retail 49)	19	2/2/2022 1:23:41 PM
Broker 4	Retail 49)	19	2/2/2022 1:23:41 PM
Broker 1	Technology	217	20	2/2/2022 1:23:41 PM
Broker 2	Technology	217	20	2/2/2022 1:23:41 PM
Broker 3	Technology	217	20	2/2/2022 1:23:41 PM
Broker 4	Technology	217	20	2/2/2022 1:23:41 PM
Broker 2	Commodity	689	20	
Broker 4	Commodity	689	20	
Broker 2	•	129	20	2/2/2022 1:23:41 PM
Broker 3	•	129	20	2/2/2022 1:23:41 PM
Broker 4	•	129	20	2/2/2022 1:23:41 PM
Broker 1	Retail 50		20	2/2/2022 1:23:41 PM
Broker 4	Retail 50		20	2/2/2022 1:23:41 PM
Broker 1	Technology	221	20	2/2/2022 1:23:42 PM
Broker 2	0,	221	21	2/2/2022 1:23:42 PM
	Technology			2/2/2022 1:23:42 PM 2/2/2022 1:23:42 PM
Broker 3	Technology	221	21	
Broker 4	Technology	221	21	2/2/2022 1:23:42 PM
Broker 2	Commodity	692	21	
Broker 4	Commodity	692	21	
Broker 2	\mathcal{C}	131	21	2/2/2022 1:23:42 PM
Broker 3	C	131	21	2/2/2022 1:23:42 PM
Broker 4	U	131	21	2/2/2022 1:23:42 PM
Broker 1	Retail 51		21	2/2/2022 1:23:42 PM
Broker 4	Retail 51		21	2/2/2022 1:23:42 PM
Broker 1	Technology	223	22	2/2/2022 1:23:42 PM
Broker 2	Technology	223	22	2/2/2022 1:23:42 PM
Broker 3	Technology	223	22	2/2/2022 1:23:42 PM
Broker 4	Technology	223	22	2/2/2022 1:23:42 PM
Broker 2	Commodity	700	22	2/2/2022 1:23:42 PM
Broker 4	Commodity	700	22	2/2/2022 1:23:42 PM
Broker 1	Retail 52	2	22	2/2/2022 1:23:42 PM
Broker 4	Retail 52		22	2/2/2022 1:23:42 PM
Broker 2		134	22	2/2/2022 1:23:42 PM
Broker 3	_	134	22	2/2/2022 1:23:42 PM
Broker 4	•	134	22	2/2/2022 1:23:42 PM
Broker 1	Technology	225	23	2/2/2022 1:23:43 PM
Broker 2	Technology	225	23	
Broker 3	Technology	225	23	
Broker 4		225	23	
	Technology			
Broker 2	Commodity	701	23	
Broker 4	Commodity	701	23	
Broker 1	Retail 53)	23	2/2/2022 1:23:43 PM

Broker 4	Retail 5	53	23	2/2/2022 1:23:43 PM
Broker 2	Banking	135	23	2/2/2022 1:23:43 PM
Broker 3	Banking	135	23	2/2/2022 1:23:43 PM
Broker 4	Banking	135	23	2/2/2022 1:23:43 PM
Broker 1	Technology	229	24	2/2/2022 1:23:43 PM
Broker 2	Technology	229	24	2/2/2022 1:23:46 PM
Broker 3	Technology	229	24	2/2/2022 1:23:46 PM
Broker 4	Technology	229	24	2/2/2022 1:23:46 PM
Broker 2	Commodity	715	24	2/2/2022 1:23:46 PM
Broker 4	Commodity	715	24	2/2/2022 1:23:46 PM
Broker 2	Banking	137	24	2/2/2022 1:23:46 PM
Broker 3	Banking	137	24	2/2/2022 1:23:46 PM
Broker 4	Banking	137	24	2/2/2022 1:23:46 PM
Broker 1	Retail 5	54	24	2/2/2022 1:23:46 PM
Broker 1 Broker 4		54 54		2/2/2022 1:23:46 PM 2/2/2022 1:23:46 PM
Broker 4	Retail 5	54	24	2/2/2022 1:23:46 PM
Broker 4 Broker 2	Retail 5 Banking	54 140	24 25	2/2/2022 1:23:46 PM 2/2/2022 1:23:46 PM
Broker 4 Broker 2 Broker 3	Retail 5 Banking Banking	54 140 140	24 25 25	2/2/2022 1:23:46 PM 2/2/2022 1:23:46 PM 2/2/2022 1:23:46 PM
Broker 4 Broker 2 Broker 3 Broker 4	Retail 5 Banking Banking Banking	140 140 140 140	24 25 25 25 25	2/2/2022 1:23:46 PM 2/2/2022 1:23:46 PM 2/2/2022 1:23:46 PM 2/2/2022 1:23:46 PM
Broker 4 Broker 2 Broker 3 Broker 4 Broker 1	Retail 5 Banking Banking Banking Technology	140 140 140 140 233	24 25 25 25 25 25	2/2/2022 1:23:46 PM 2/2/2022 1:23:46 PM 2/2/2022 1:23:46 PM 2/2/2022 1:23:46 PM 2/2/2022 1:23:46 PM
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Grading:

Do the lab assignment in two solutions:

- Use thread to simulate the stock price.
- Use async to synchronize the output to the console window and text file

Each team member should make the following files and zip all of them in a zip file:

- Video to demonstrate the lab assignment less than 2 minutes.
- pdf file with coding of the Stock.cs and Broker.cs for each solution.
- Zip the project file for each solution

Each team member submits all the files above and write in the comment box with the following information:

- Team member names
- Write the completion of the lab assignment for each team member. All the team members must agree with the completion of each team member.

The program run successfully with correct output (100% completion) The program run successfully with incorrect output (60% completion) The program has syntax errors or is incomplete (40% completion) The program has few coding and syntax errors (30% completion) There is no submission (0%)