VBA Coding Homework - Ellen Riina

2014 Worksheet

	A	B	C	D	E	F	G	H	I	J	K
1	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		ticker	total volume	
2	A	20140101	57.19	57.19	57.19	57.19	0		A	572978100	
3	A	20140102	57.1	57.1	56.15	56.21	1916100		AA	5161412000	
4	A	20140103	56.39	57.35	56.26	56.92	1866600		AA-B	21618200	
5	A	20140106	57.4	57.7	56.56	56.64	1777400		AAC	9789700	
6	A	20140107	56.95	57.63	56.93	57.45	1463200		AAN	237929300	
7	A	20140108	57.33	58.54	57.17	58.39	2659400		AAP	200376400	
8	A	20140109	58.4	58.68	57.87	58.41	1757600		AAT	40207800	
9	A	20140110	58.51	59.01	58.14	58.93	1623300		AAV	86658700	
10	A	20140113	58.77	59.1	58.6	58.93	2946700		AB	83051600	
11	A	20140114	59.16	59.95	59.02	59.88	2562200		ABB	466820000	
12	A	20140115	59.82	60.37	59.59	60.34	2335100		ABBV	2303237600	
13	A	20140116	60.24	60.5	60.04	60.5	1835900		ABC	428969000	
14	A	20140117	60.83	60.83	60.33	60.71	1699500		ABEV	3208014300	
15	A	20140120	60.71	60.71	60.71	60.71	0		ABG	81065600	
16	A	20140121	60.69	60.88	59.86	60.85	3008400		ABM	52403000	
17	A	20140122	60.82	61.22	60.71	60.93	2769300		ABR	28348400	
18	A	20140123	60.48	60.51	59.4	59.47	3063500		ABR-A	1798500	
19	A	20140124	59.46	59.46	57.71	57.87	2656300		ABR-B	1722000	
20	A	20140127	57.9	58.37	56.98	58.3	4669000		ABR-C	1758200	
21	A	20140128	58.5	58.88	57.91	58.1	2536200		ABRN	3451100	
22	A	20140129	57.67	58.22	57.41	57.65	2163000		ABT	1516024700	
23	A	20140130	58.42	60.11	58.42	59.51	3743100		ABX	3085372400	
24	A	20140131	58.61	59.15	58.05	58.15	3529000		ACC	180543400	
25	A	20140203	58.15	58.48	56.08	56.15	2929200		ACCO	223248000	
26	A	20140204	56.32	57.88	56.09	57.81	2911800		ACH	34117500	
27	A	20140205	57.58	57.7	56.96	57.43	2283800		ACM	303393900	
28	A	20140206	57.51	58.35	57.46	58.29	1609400		ACN	705479100	
29	A	20140207	58.46	59.47	58.13	59.42	1975200		ACP	14206700	
30	A	20140210	59.27	59.44	58.29	59.01	1760400		ACRE	44197000	
31	A	20140211	59	60	58.88	59.73	2148200		ACW	60360500	
32	A	20140212	60	60.46	59.67	59.89	2347200		ADC	16456400	
33	A	20140213	59.45	60.38	59.37	60.08	3097000		ADM	899905700	
34	A	20140214	57.15	57.77	54.87	55.25	17862700		ADPT	19722500	
35	A	20140217	55.25	55.25	55.25	55.25	0		ADS	178760600	

2015 Worksheet

	A	B	C	D	E	F	G	H	I	J	K
1	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		ticker	total volume	
2	A	20150101	40.94	40.94	40.94	40.94	0		A	645319200	
3	A	20150102	41.18	41.31	40.37	40.56	1530700		AA	6449104200	
4	A	20150105	40.32	40.46	39.7	39.8	2042200		AA-B	40441700	
5	A	20150106	39.81	40.02	39.02	39.18	2084500		AAC	78122300	
6	A	20150107	39.52	39.81	39.29	39.7	3359600		AAN	179606700	
7	A	20150108	40.24	40.98	40.18	40.89	2116300		AAP	266930500	
8	A	20150109	41	41	40.29	40.59	1644900		AAT	48158100	
9	A	20150112	40.61	40.72	39.95	40.11	2771100		AAV	30229400	
10	A	20150113	40.47	40.7	39.33	39.55	2013400		AB	71403800	
11	A	20150114	39.03	39.1	38.21	39.06	5134000		ABB	532805500	
12	A	20150115	39.33	39.41	37.99	38.01	2630200		ABBV	2643021600	
13	A	20150116	37.86	38.46	37.76	38.25	3003900		ABC	516218400	
14	A	20150119	38.25	38.25	38.25	38.25	0		ABEV	3915345800	
15	A	20150120	38.43	38.66	37.76	37.93	5033600		ABG	82930400	
16	A	20150121	37.75	38.41	37.68	38.16	2721600		ABM	72539400	
17	A	20150122	38.51	39.86	38.12	39.65	4856500		ABR	37916900	
18	A	20150123	39.6	39.6	38.76	38.81	1519200		ABR-A	1243100	
19	A	20150126	38.79	39.17	38.47	39.15	1511200		ABR-B	1022000	
20	A	20150127	38.7	39.25	38.58	38.75	1703500		ABR-C	634000	
21	A	20150128	39.01	39.05	37.96	38	2033500		ABRN	2109900	
22	A	20150129	38	38.47	37.69	38.46	2329900		ABT	1469310700	
23	A	20150130	38.01	38.32	37.71	37.77	3054300		ABX	4289215100	
24	A	20150202	37.9	38.76	37.71	38.69	2508400		AC	437700	
25	A	20150203	39.04	39.63	38.92	39.62	2950300		ACC	228980000	
26	A	20150204	39.33	39.46	38.82	39.11	2567400		ACCO	167330800	
27	A	20150205	39.22	39.82	39.22	39.53	1826300		ACH	35801000	
28	A	20150206	39.54	39.81	39.23	39.34	2697200		ACM	362299600	
29	A	20150209	39.23	39.43	38.95	39.04	3586100		ACN	625655000	
30	A	20150210	39.31	39.76	38.78	39.67	1408700		ACP	14348400	
31	A	20150211	39.64	39.81	39.23	39.33	3337000		ACRE	39118800	
32	A	20150212	39.58	40.06	39.53	40.02	1317700		ACV	11539300	
33	A	20150213	39.97	40.31	39.91	40.15	2211900		ACW	46092000	
34	A	20150216	40.15	40.15	40.15	40.15	0		ADC	27995400	
35	A	20150217	40.01	40.53	39.76	40.52	2875700		ADM	998224500	

2016 Worksheet

	A	B	C	D	E	F	G	H	I	J	K
1	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		ticker	total volume	
2	A	20160101	41.81	41.81	41.81	41.81	0		A	528576200	
3	A	20160104	41.06	41.19	40.34	40.69	3287300		AA	5208239000	
4	A	20160105	40.73	40.95	40.34	40.55	2587200		AAC	57179800	
5	A	20160106	40.24	40.99	40.05	40.73	2103600		AAN	184809000	
6	A	20160107	40.14	40.15	38.81	39	3504300		AAP	262665300	
7	A	20160108	39.22	39.71	38.47	38.59	3736700		AAT	49026400	
8	A	20160111	38.71	38.9	37.41	37.94	2818600		AAV	27358200	
9	A	20160112	38.43	38.58	37.65	38.19	1989300		AB	64736300	
10	A	20160113	38.35	38.47	36.72	36.86	4206600		ABB	503779400	
11	A	20160114	36.94	37.88	36.55	37.61	2893300		ABBV	2034231800	
12	A	20160115	36.67	37.56	36.55	37.11	2994300		ABC	647239900	
13	A	20160118	37.11	37.11	37.11	37.11	0		ABEV	4199335100	
14	A	20160119	37.64	37.92	36.79	37.2	2506500		ABG	89828200	
15	A	20160120	36.68	37.61	36.13	37.26	2469000		ABM	79787400	
16	A	20160121	37.35	37.83	36.81	37.23	2298300		ABR	27556100	
17	A	20160122	37.91	38.18	37.58	37.98	1834400		ABR-A	792500	
18	A	20160125	37.4	38.03	37.4	37.61	1831200		ABR-B	795300	
19	A	20160126	37.89	37.96	37.36	37.51	1755000		ABR-C	521300	
20	A	20160127	37.39	37.92	36.81	37.05	1479400		ABRN	1759800	
21	A	20160128	37.27	37.27	36.01	36.11	3479400		ABT	2298099600	
22	A	20160129	36.44	37.69	36.31	37.65	2959800		ABX	4996990800	
23	A	20160201	37.37	37.95	37	37.69	2666500		AC	6530000	
24	A	20160202	37.18	37.55	36.95	37.07	1742300		ACC	258457600	
25	A	20160203	37.27	37.36	36.29	37.19	2128400		ACCO	163653100	
26	A	20160204	37.15	37.79	36.97	37.42	2833400		ACH	11563400	
27	A	20160205	37.26	37.31	35.83	36.04	4424600		ACM	296759000	
28	A	20160208	35.61	35.78	34.39	34.8	3888600		ACN	650155300	
29	A	20160209	34.21	35.77	34.15	35.37	3464400		ACP	21179200	
30	A	20160210	35.63	36.73	35.53	35.85	3169900		ACRE	35062000	
31	A	20160211	35.12	35.61	34.94	35.33	3224000		ACV	12734300	
32	A	20160212	35.84	36.23	35.52	36.22	3923600		ADC	51966400	
33	A	20160215	36.22	36.22	36.22	36.22	0		ADM	909133500	
34	A	20160216	36.72	37.17	36.4	37.08	2903600		ADNT	101270800	

VBA Developer Code

```vba
Sub stock_total()

'define variables
Dim ws As Worksheet

Dim curstockname, holdstockname, nextstockname, wsname As String

Dim curstockvalue, nextstockvalue, totalstockvalue, resultrow As Long

Dim LastRow As Long

'initialize variables to 0

'loop through each worksheet

For Each ws In Worksheets

    wsname = ws.Name
    LastRow = ws.Cells(Rows.Count, 1).End(xlUp).Row
    MsgBox ("worksheet" + wsname)
    MsgBox ("Last row in the worksheet is " + Str(LastRow))

    resultrow = 2
    totalstockvalue = 0
    ws.Range("I1").Value = "ticker"
    ws.Range("J1").Value = "total volume"

    'loop for each row in the worksheet

    For i = 2 To LastRow


        'assign values of ticker and total stock trades from cell values to variables.

        curstockname = ws.Cells(i, 1).Value
        curstockvalue = ws.Cells(i, 7).Value
        nextstockname = ws.Cells(i + 1, 1).Value
        nextstockvalue = ws.Cells(i + 1, 7).Value


        If i = 2 Then
            holdstockname = ws.Range("A2").Value
        End If


        If curstockname = nextstockname Then
            totalstockvalue = totalstockvalue + curstockvalue
        Else

            ' Print the ticker name  in the Result Table.
            ws.Range("I" & resultrow).Value = holdstockname

            'Add value of the last cell in that ticker to the stocktotal
            totalstockvalue = totalstockvalue + curstockvalue

            ' Print the Total stock value into the Result Table.
            ws.Range("J" & resultrow).Value = totalstockvalue

          'reset relevant values for next ticker.
            totalstockvalue = 0
            holdstockname = nextstockname
            resultrow = resultrow + 1

        End If


    Next i


Next ws
```