

In this homework we used VBA to loop through an excel file containing multiple quarter stock data, with each excel worksheet containing a different quarter. By looping we were able to create the following outputs:

- The ticker symbol
- Quarterly change from the opening price at the beginning of a given quarter to the closing price at the end of that quarter.
- The percentage change from the opening price at the beginning of a given quarter to the closing price at the end of that quarter.
- The total stock volume of the stock.

The results are screen captured below:

Q1

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Quarterly Change	Percent Change	Volume								
2	AAF	1/2/2022	5.02	5.05	5.02	5.03	879382		AAF	0.05	1.00%	752812510								
3	AAF	1/3/2022	5.01	5.01	4.98	5.01	6907		AAR	0.14	7.65%	8865652					Greatest % Increase	47.01%		
4	AAF	1/6/2022	5.01	5.01	4.98	4.98	2503582		ABJ	0.81	1.78%	141569994					Greatest % Decrease	-77.83%		
5	AAF	1/7/2022	4.96	5	4.96	4.99	161914		ABK	-0.82	-2.11%	4876577					Greatest Total Volume	2.64041E+11		
6	AAF	1/8/2022	4.98	4.99	4.97	4.98	563307		ABKV	1.58	6.19%	967446696								
7	AAF	1/9/2022	4.98	4.99	4.96	4.96	187523		ACJ	0.06	0.39%	1503284								
8	AAF	1/10/2022	4.97	4.99	4.93	4.95	2295067		ADB	0.12	0.47%	8100755								
9	AAF	1/13/2022	4.95	5	4.95	5	724593		AEV	-2.27	-5.41%	37848								
10	AAF	1/14/2022	5	5.03	4.99	4.99	147386		AEY	0.01	0.71%	3813328								
11	AAF	1/15/2022	5.01	5.03	4.98	5.03	6977393		AGF	-0.37	-0.68%	776480046								
12	AAF	1/16/2022	5.02	5.04	5	5	209779		AHAO	0.01	0.09%	567614264								
13	AAF	1/17/2022	5	5.02	4.98	4.98	396340		AIQ	0	0.00%	1959736								
14	AAF	1/21/2022	4.98	4.98	4.93	4.95	41545		AIQK	2.4	10.50%	65297991								
15	AAF	1/22/2022	4.93	4.95	4.89	4.89	20380		AJJ	1.28	1.15%	71012								
16	AAF	1/23/2022	4.89	4.91	4.89	4.91	360920		AJL	-0.14	-0.98%	96387487								
17	AAF	1/24/2022	4.89	4.89	4.86	4.89	202596		AJR	-0.47	-2.82%	69879769								
18	AAF	1/27/2022	4.89	4.96	4.88	4.96	1.07E+08		AJS	-0.32	-1.83%	178949374								
19	AAF	1/28/2022	4.96	4.96	4.95	4.96	237208		AKKV	-0.19	-2.17%	314521449								
20	AAF	1/29/2022	4.96	5	4.96	4.97	26445010		AKUC	-3.33	-7.59%	304714155								
21	AAF	1/30/2022	4.97	4.97	4.94	4.95	200506		ANO	0.21	0.39%	131090752								
22	AAF	1/31/2022	4.94	4.94	4.91	4.92	125462		ANQ	0.15	1.79%	174506248								
23	AAF	2/3/2022	4.91	4.91	4.88	4.88	113514		ANVE	-0.32	-0.90%	120720960								
24	AAF	2/4/2022	4.9	4.94	4.9	4.94	6459377		AORS	-0.52	-6.30%	822422742								
25	AAF	2/5/2022	4.93	4.98	4.93	4.95	1141175		APM	-5.12	-6.16%	28090822								
26	AAF	2/6/2022	4.95	4.97	4.95	4.96	9584622		AQA	-0.03	-1.02%	35324348								
27	AAF	2/7/2022	4.96	5.02	4.96	5.02	1580341		AQYW	0.25	4.83%	14357965								
28	AAF	2/10/2022	5.02	5.05	5.02	5.04	339812		AREZ	0.77	1.02%	30061745								
29	AAF	2/11/2022	5.05	5.06	5.05	5.06	626351		ASC	-0.76	-3.71%	104745031								
30	AAF	2/12/2022	5.05	5.07	5.04	5.06	654887		ASX	-1.22	-2.19%	556481618								
31	AAF	2/13/2022	5.07	5.08	5.05	5.05	39107389		ATH	3.29	3.67%	1926736256								
32	AAF	2/14/2022	5.04	5.06	5.04	5.06	4964644		AUE	0.47	2.23%	7178634471								
33	AAF	2/18/2022	5.07	5.07	5.02	5.02	150503		AUID	0.03	0.49%	162221460								
34	AAF	2/19/2022	5.03	5.05	5.01	5.01	22850664		AVK	-0.37	-2.55%	4677360514								
35	AAF	2/20/2022	5.01	5.06	4.99	5.06	56625		AWB	1.11	8.35%	166657173								
36	AAF	2/21/2022	5.07	5.08	5.04	5.06	2679942		AWW	1.18	4.87%	4078320011								

Q2

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Quarterly Change	Percent Change	Volume								
2	AAF	4/1/2022	5.09	5.09	5.08	5.08	1724		AAF	0.29	5.70%	231604831								
3	AAF	4/2/2022	5.09	5.13	5.09	5.13	690388		AAR	0.07	3.55%	10577420				Greatest % Increase	57.57%			
4	AAF	4/3/2022	5.14	5.18	5.13	5.17	18199285		ABJ	1.72	3.71%	45583612				Greatest % Decrease	-71.53%			
5	AAF	4/6/2022	5.17	5.17	5.14	5.17	1462670		ABK	-0.27	-0.71%	1755262				Greatest Total Volume	3.91E+11			
6	AAF	4/7/2022	5.15	5.18	5.15	5.18	251022		ABKV	-1.77	-6.52%	847353538								
7	AAF	4/8/2022	5.18	5.18	5.13	5.15	10899		ACJ	-0.25	-1.64%	1213043								
8	AAF	4/9/2022	5.15	5.16	5.12	5.15	16664		ADB	0.05	0.20%	8687185								
9	AAF	4/13/2022	5.15	5.16	5.12	5.12	53569		AEV	-9.17	-23.20%	65529								
10	AAF	4/14/2022	5.13	5.15	5.12	5.12	20698485		AEY	-0.01	-0.70%	3774726								
11	AAF	4/15/2022	5.1	5.1	5.05	5.08	15806		AGF	0.85	1.58%	537756937								
12	AAF	4/16/2022	5.09	5.13	5.08	5.09	3609880		AHAO	-0.39	-3.58%	512142581								
13	AAF	4/17/2022	5.09	5.12	5.09	5.12	517468		AIQ	-0.17	-1.44%	2918858								
14	AAF	4/20/2022	5.14	5.15	5.13	5.15	17256106		AIQK	-1.66	-6.61%	48012782								
15	AAF	4/21/2022	5.15	5.23	5.15	5.21	6568495		AJJ	0.5	0.45%	554855								
16	AAF	4/22/2022	5.2	5.22	5.19	5.19	918046		AJL	-0.06	-0.42%	98135429								
17	AAF	4/23/2022	5.19	5.2	5.16	5.2	92653		AJR	0.24	1.48%	55779612								
18	AAF	4/24/2022	5.2	5.24	5.2	5.24	9173074		AJS	-1.35	-7.85%	206474415								
19	AAF	4/27/2022	5.25	5.27	5.25	5.27	3368588		AKKV	-0.51	-5.94%	358111203								
20	AAF	4/28/2022	5.27	5.3	5.27	5.3	2770300		AKUC	2.62	6.46%	503310462								
21	AAF	4/29/2022	5.31	5.33	5.29	5.33	130478		ANO	-3.71	-6.85%	146142775								
22	AAF	4/30/2022	5.33	5.33	5.23	5.23	58640		ANQ	-0.04	-0.47%	76141573								
23	AAF	5/1/2022	5.23	5.28	5.23	5.26	2430144		ANVE	-0.27	-0.77%	117552808								
24	AAF	5/4/2022	5.27	5.27	5.23	5.25	272790		AORS	-0.31	-4.02%	419352964								
25	AAF	5/5/2022	5.26	5.27	5.25	5.26	24226		APM	13.32	17.23%	483459885								
26	AAF	5/6/2022	5.25	5.25	5.21	5.23	59283		AQA	0.03	1.03%	48175139								
27	AAF	5/7/2022	5.22	5.23	5.2	5.22	977965		AQYW	0.27	4.99%	36190478								
28	AAF	5/8/2022	5.22	5.26	5.21	5.26	5243956		AREZ	4.23	5.54%	42853695								
29	AAF	5/11/2022	5.26	5.27	5.25	5.27	167619		ASC	0.43	2.19%	68080586								
30	AAF	5/12/2022	5.25	5.25	5.19	5.19	56982529		ASX	1.26	2.31%	6878806422								
31	AAF	5/13/2022	5.2	5.26	5.2	5.26	19531		ATH	4.6	4.95%	162999510								
32	AAF	5/14/2022	5.28	5.3	5.28	5.3	140822		AUE	-0.45	-2.05%	21646499566								
33	AAF	5/15/2022	5.28	5.29	5.27	5.27	184859		AUID	-0.09	-1.46%	34531012								
34	AAF	5/18/2022	5.27	5.27	5.24	5.25	718088		AVK	0.28	1.98%	4988645109								
35	AAF	5/19/2022	5.23	5.29	5.23	5.27	181292		AWB	0.36	2.30%	49483768								
36	ΔΔE	5/20/2022	5.25	5.3	5.24	5.3	5990202		ΔΔΔΔ	-0.25	-1.44%	1898929824								

Q3

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Quarterly Change	Percent Change	Volume								
2	AAF	7/1/2022	5.38	5.44	5.38	5.44	333664		AAF	0.16	2.97%	812229324								
3	AAF	7/2/2022	5.44	5.46	5.43	5.45	40777		AAR	0.13	6.37%	13282359				Greatest % Increase	37.21%			
4	AAF	7/6/2022	5.47	5.48	5.44	5.47	10592		ABJ	-2.1	-4.37%	983632290				Greatest % Decrease	-47.15%			
5	AAF	7/7/2022	5.46	5.5	5.46	5.49	960770		ABK	0.27	0.71%	1182567				Greatest Total Volume	4.8E+11			
6	AAF	7/8/2022	5.49	5.53	5.48	5.5	297757		ABKV	-0.58	-2.28%	1262340775								
7	AAF	7/9/2022	5.49	5.49	5.41	5.41	4344806		ACJ	0.03	0.20%	1358080								
8	AAF	7/10/2022	5.42	5.42	5.37	5.37	210702		ADB	0.03	0.12%	8782076								
9	AAF	7/13/2022	5.38	5.4	5.37	5.39	1023574		AEV	1.76	5.77%	45218								
10	AAF	7/14/2022	5.38	5.42	5.38	5.42	7599		AEY	0.05	3.57%	2180837								
11	AAF	7/15/2022	5.44	5.47	5.44	5.47	23718054		AGF	0.02	0.04%	794391378								
12	AAF	7/16/2022	5.47	5.49	5.46	5.49	1567039		AHAO	0.22	2.10%	3366198572								
13	AAF	7/17/2022	5.49	5.54	5.49	5.5	6540703		AIQ	0.15	1.29%	6285184								
14	AAF	7/20/2022	5.52	5.52	5.46	5.46	2488667		AIQK	2.82	12.05%	56944349								
15	AAF	7/21/2022	5.47	5.47	5.42	5.43	191890		AJJ	-0.88	-0.78%	138017								
16	AAF	7/22/2022	5.42	5.43	5.41	5.43	2526282		AJL	-0.07	-0.50%	161335262								
17	AAF	7/23/2022	5.43	5.44	5.41	5.41	89544		AJR	-0.24	-1.40%	34726033								
18	AAF	7/24/2022	5.43	5.43	5.37	5.37	1256290		AJS	2	12.63%	261384589								
19	AAF	7/27/2022	5.39	5.44	5.39	5.44	211198		AKKV	-0.09	-1.12%	152827525								
20	AAF	7/28/2022	5.45	5.49	5.45	5.49	1543380		AKUC	-1.77	-4.09%	1009976826								
21	AAF	7/29/2022	5.5	5.51	5.47	5.47	14555546		ANO	-2.67	-5.29%	104330678								
22	AAF	7/30/2022	5.47	5.5	5.46	5.48	4326414		ANQ	-0.2	-2.35%	97971983								
23	AAF	7/31/2022	5.47	5.49	5.46	5.47	113868		ANVE	-0.09	-0.26%	86733959								
24	AAF	8/3/2022	5.47	5.47	5.46	5.46	1570087		AORS	-0.03	-0.41%	294265718								
25	AAF	8/4/2022	5.46	5.49	5.44	5.45	92877		APM	-7.84	-8.63%	54328089								
26	AAF	8/5/2022	5.44	5.44	5.4	5.44	131325		AQA	0.01	0.34%	18535684								
27	AAF	8/6/2022	5.44	5.49	5.44	5.48	716273		AQYW	-0.41	-7.22%	23817803								
28	AAF	8/7/2022	5.46	5.53	5.45	5.53	1163753		AREZ	3.21	3.98%	18361937								
29	AAF	8/10/2022	5.54	5.55	5.53	5.55	47924		ASC	-0.28	-1.30%	200985798								
30	AAF	8/11/2022	5.55	5.56	5.51	5.51	58994		ASX	-3.4	-6.09%	376672405								
31	AAF	8/12/2022	5.51	5.52	5.48	5.48	21340164		ATH	2.93	3.01%	482661404								
32	AAF	8/13/2022	5.49	5.5	5.47	5.47	197628		AUE	0.19	0.30%	14824441614								
33	AAF	8/14/2022	5.48	5.52	5.48	5.51	136172		AUID	-0.25	-4.12%	24224062								
34	AAF	8/17/2022	5.5	5.56	5.5	5.55	2624015		AVK	-0.37	-2.57%	3384893684								
35	AAF	8/18/2022	5.57	5.58	5.54	5.54	30175		AWB	0.28	1.89%	145816065								
36	ΔΔE	8/19/2022	5.54	5.57	5.54	5.56	494632		ΔΔΔΔ	0.8	4.33%	1796479393								

Q4

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Quarterly Change	Percent Change	Volume								
2	AAF	10/1/2022	5.53	5.56	5.53	5.56	10212793		AAF	-0.13	-5.97%	283924051				Greatest % Increase	66.35%			
3	AAF	10/2/2022	5.54	5.55	5.52	5.55	582073		AAR	0.09	4.17%	7180097				Greatest % Decrease	-42.47%			
4	AAF	10/5/2022	5.53	5.55	5.51	5.51	791312		ABJ	1.95	4.24%	57167862				Greatest Total Volume	3.58E+11			
5	AAF	10/6/2022	5.53	5.54	5.51	5.54	137612		ABK	0.22	0.58%	1713143								
6	AAF	10/7/2022	5.55	5.55	5.52	5.53	4141794		ABKV	-2.78	-11.22%	1325081594								
7	AAF	10/8/2022	5.53	5.53	5.49	5.53	2340485		ACJ	-0.29	-1.93%	2007080								
8	AAF	10/9/2022	5.52	5.56	5.51	5.56	863156		ADB	-0.86	-3.38%	8956020								
9	AAF	10/12/2022	5.52	5.52	5.5	5.5	1401089		AEV	0.89	2.75%	47488								
10	AAF	10/13/2022	5.5	5.51	5.48	5.51	1596798		AEY	0.04	2.76%	4298758								
11	AAF	10/14/2022	5.51	5.52	5.49	5.52	47918		AGF	-0.38	-0.69%	505213611								
12	AAF	10/15/2022	5.51	5.51	5.48	5.49	346706		AHAO	0.37	3.46%	1160273140								
13	AAF	10/16/2022	5.48	5.52	5.48	5.5	232992		AIQ	-0.11	-0.93%	1230859								
14	AAF	10/19/2022	5.48	5.48	5.43	5.45	298970		AIQK	0.21	0.80%	66485266								
15	AAF	10/20/2022	5.45	5.49	5.45	5.49	10289359		AJJ	0	0.00%	134670								
16	AAF	10/21/2022	5.48	5.48	5.46	5.47	1241587		AJL	-0.2	-1.41%	162249647								
17	AAF	10/22/2022	5.46	5.47	5.44	5.46	110568		AJR	-0.12	-0.74%	53697777								
18	AAF	10/23/2022	5.46	5.46	5.41	5.41	1422918		AJS	0.22	1.23%	289650220								
19	AAF	10/26/2022	5.39	5.42	5.39	5.41	2837521		AKKV	-0.11	-1.38%	108536855								
20	AAF	10/27/2022	5.4	5.44	5.4	5.43	8448407		AKUC	-1.95	-4.70%	320975640								
21	AAF	10/28/2022	5.41	5.42	5.38	5.42	150170		ANO	-0.45	-0.95%	234024374								
22	AAF	10/29/2022	5.41	5.44	5.41	5.44	6159535		ANQ	-0.07	-0.84%	160411134								
23	AAF	10/30/2022	5.44	5.45	5.41	5.44	807481		ANVE	1.49	4.29%	255254835								
24	AAF	11/2/2022	5.44	5.44	5.37	5.38	10928362		AORS	-0.07	-0.95%	246196717								
25	AAF	11/3/2022	5.4	5.42	5.38	5.4	355773		APM	-0.21	-0.25%	43103336								
26	AAF	11/4/2022	5.41	5.43	5.39	5.4	15058496		AQA	-0.15	-5.08%	20844579								
27	AAF	11/5/2022	5.41	5.43	5.4	5.4	919408		AQYW	-0.36	-6.81%	11741911								
28	AAF	11/6/2022	5.41	5.41	5.35	5.37	7107850		AREZ	2.44	2.91%	27394397								
29	AAF	11/9/2022	5.35	5.37	5.32	5.36	94508		ASC	0.35	1.77%	110759527								
30	AAF	11/10/2022	5.35	5.4	5.34	5.4	2930052		ASX	-1.51	-2.88%	150909454								
31	AAF	11/11/2022	5.4	5.41	5.38	5.4	74629		ATH	8.95	8.91%	563145192								
32	AAF	11/12/2022	5.4	5.41	5.39	5.41	264227		AUE	-0.1	-0.47%	3024212191								
33	AAF	11/13/2022	5.41	5.46	5.4	5.46	755575		AUID	-0.06	-1.03%	141060743								
34	AAF	11/16/2022	5.45	5.49	5.44	5.49	160953		AVK	-0.4	-2.84%	3607772736								
35	AAF	11/17/2022	5.5	5.52	5.48	5.51	168171		AWB	-0.28	-1.72%	184783875								
36	AAF	11/18/2022	5.5	5.5	5.47	5.48	771571		AWW	-0.23	-1.06%	517164914								