

# Example Run

I cannot include the actual code in the repository as the IP is owned by Vianai Systems, but I am allowed to show an example run with inputs and outputs. I have chosen Monster Energy (MNST) although the code will work for any S&P 500 company. The entire Excel Sheet generation takes approximately 30 seconds.

Input:

```
✓ [25] 1 def get_years():  
0s    2     num_years = input("Select how many years you would like to project")  
    3     return num_years  
  
✓ [26] 1 def get_company():  
0s    2     company = input("Select a company ticker")  
    3     return company
```

In our case, we have chosen company=MNST and num\_years=4

Output:

Income Statement:

0	Revenue	4598638000	5,541,352,000.00	6,311,050,000.00	7,187,659,636.58	8,186,031,017.24	9,323,076,940.68	10,618,059,406.16
1	Revenue Growth Percentage	N/A	0.20	0.14	0.14	0.14	0.14	0.14
2	Cost of Goods Sold	1874758000	2,432,839,000.00	3,136,483,000.00	3,428,389,677.30	3,740,874,986.10	4,074,023,823.06	4,427,547,637.11
3	COGS as a % of Revenue	0.41	0.44	0.50	0.48	0.46	0.44	0.42
4	Gross Profit	2723880000	3,108,513,000.00	3,174,567,000.00	3,759,269,959.28	4,445,156,031.15	5,249,053,117.61	6,190,511,769.05
5	Gross Profit Margin	0.59	0.56	0.50	0.52	0.54	0.56	0.58
6	SG&A Expenses	0	0.00	709,900,000.00	789,753,274.81	878,588,864.74	977,417,147.68	1,087,362,154.16
7	SGA as a % of Revenue	0.00	0.00	0.11	0.11	0.11	0.11	0.11
8	R&D Expenses	0	0.00	0.00	0.00	0.00	0.00	0.00
9	R&D as a % of Revenue	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	Other Expenses	1090727000	1,311,046,000.00	879,946,000.00	1,002,636,354.68	1,142,433,353.56	1,301,722,166.00	1,483,220,524.13
11	Other Expenses as a % of Revenue	0.24	0.24	0.14	0.14	0.14	0.14	0.14
12	EBITDA	1694126000	1,847,622,000.00	1,645,962,000.00	2,031,268,681.70	2,491,831,268.20	3,041,090,427.09	3,694,763,686.21
13	EBITDA Margin	0.37	0.33	0.26	0.28	0.30	0.33	0.35
14	D&A	60973000	50,155,000.00	61,241,000.00	76,845,580.13	94,527,911.41	115,363,711.06	139,825,213.40
15	EBIT	1633153000	1,797,467,000.00	1,584,721,000.00	1,966,880,329.79	2,424,133,812.85	2,969,913,803.94	3,619,929,090.77
16	EBIT Margin	0.36	0.32	0.25	0.28	0.30	0.33	0.35
17	Interest Income	0	0.00	0.00	N/A	N/A	N/A	N/A
18	Interest Expenses	0	0.00	12,757,000.00	N/A	N/A	N/A	N/A
19	Other Interest Expenses	6,996,000.36	-3,951,999.68	12,757,000.25	N/A	N/A	N/A	N/A
20	Net Interest Expenses	-6996000	3,952,000.00	-12,757,000.00	0	0	0	0
21	EBT	1626157000	1,801,419,000.00	1,571,964,000.00	1,966,880,329.79	2,424,133,812.85	2,969,913,803.94	3,619,929,090.77
22	EBT Margin	0.35	0.33	0.25	0.28	0.30	0.33	0.35
23	Income Tax Expenses	216563000	423,944,000.00	380,340,000.00	471,623,270.43	584,814,926.68	725,173,077.55	899,217,801.08
21	EBT	1626157000	1,801,419,000.00	1,571,964,000.00	1,966,880,329.79	2,424,133,812.85	2,969,913,803.94	3,619,929,090.77
22	EBT Margin	0.35	0.33	0.25	0.28	0.30	0.33	0.35
23	Income Tax Expenses	216563000	423,944,000.00	380,340,000.00	471,623,270.43	584,814,926.68	725,173,077.55	899,217,801.08
24	Tax Rate %	0.13	0.24	0.24	0.24	0.24	0.24	0.24
25	Net Income	1409594000	1,377,475,000.00	1,191,624,000.00	1,495,257,059.36	1,839,318,886.18	2,244,740,726.39	2,720,711,289.69
26	D&A as a % of NI	0.04	0.04	0.05	0.05	0.05	0.05	0.05
27	Earnings Per Share (Basic)	1.33	1.31	1.13	1.43	1.76	2.14	2.60
28	Earnings Per Share (Diluted)	1.32	1.29	1.12	1.42	1.75	2.14	2.59
29	Average Common Shares Outstanding (Basic)	1059278000	1,057,526,000.00	1,053,558,000.00	1,047,722,029.70	1,047,722,029.70	1,047,722,029.70	1,047,722,029.70
30	Average Common Shares Outstanding (Diluted)	1069614000	1,071,278,000.00	1,066,442,000.00	1,049,812,873.91	1,049,812,873.91	1,049,812,873.91	1,049,812,873.91
31	Common Shares Repurchased	N/A	1,752,000.00	3,968,000.00	5,835,970.30	5,835,970.30	5,835,970.30	5,835,970.30

## Cash Flow Statement:

	Item	2020	2021	2022	2023 (E)	2024 (E)	2025 (E)	2026 (E)
0	Net Income	1,409,594,000.00	1,377,475,000.00	1,191,624,000.00	1,495,257,059.36	1,839,318,886.18	2,244,740,726.39	2,720,711,289.69
1	Depreciation and Amortization	60,973,000.00	50,155,000.00	61,241,000.00	76,845,580.13	94,527,911.41	115,363,711.06	139,825,213.40
2	Deferred Income Taxes	-156,873,000.00	16,429,000.00	48,182,000.00	N/A	N/A	N/A	N/A
3	Stock-Based Compensation	70,289,000.00	70,483,000.00	64,109,000.00	N/A	N/A	N/A	N/A
4	Changes in Accounts Receivables	-119,672,000.00	-254,228,000.00	-128,981,000.00	-146,896,558.83	-167,300,602.38	-190,538,783.07	-217,004,764.70
5	Changes in Inventory	30,304,000.00	-277,793,000.00	-347,712,000.00	-380,072,913.35	-414,715,183.59	-451,648,222.41	-490,840,040.90
6	Changes in Accounts Payable	18,696,000.00	114,297,000.00	49,765,000.00	54,396,536.60	59,354,584.00	64,640,489.22	70,249,673.97
7	Changes in Other Working Capital	42,502,000.00	55,829,000.00	-59,881,000.00	N/A	N/A	N/A	N/A
8	Changes in Other Non-Cash Items	8,350,000.00	3,094,000.00	9,352,000.00	N/A	N/A	N/A	N/A
9	Net Changes From Operating Working Capital	-28,170,000.00	-361,895,000.00	-486,809,000.00	-472,572,935.58	-522,661,201.97	-577,546,516.26	-637,595,131.63
10	Total Cash Flows From Operating Activities	1,364,163,000.00	1,155,741,000.00	887,699,000.00	1,099,529,703.90	1,411,185,595.62	1,782,557,921.19	2,222,941,371.46
11	Payments for Property and Equipment (CAPEX)	-67,272,000.00	-57,453,000.00	-212,153,000.00	-219,284,760.23	-226,656,262.55	-234,275,566.17	-242,151,001.19
12	CAPEX as a % of revenue	0.01	0.01	0.03	0.03	0.03	0.03	0.03
13	Purchases of Investments	-1,299,981,000.00	-2,413,143,000.00	-1,847,067,000.00	N/A	N/A	N/A	N/A
14	Net Cash from Acquisitions	-17,557,000.00	-12,257,000.00	-329,472,000.00	N/A	N/A	N/A	N/A
15	Sales Maturities of Investments	920,196,000.00	1,488,599,000.00	2,252,355,000.00	N/A	N/A	N/A	N/A
16	Other Investing Activities	-7,873,000.00	2,232,000.00	-25,030,000.00	N/A	N/A	N/A	N/A
17	Total Cash From Investing Activities	-472,487,000.00	-992,022,000.00	-161,367,000.00	-219,284,760.23	-226,656,262.55	-234,275,566.17	-242,151,001.19
18	Debt Repayments	-3,086,000.00	0.00	0.00	N/A	N/A	N/A	N/A
19	Dividends Paid	0.00	0.00	0.00	N/A	N/A	N/A	N/A
20	Purchase of Common Stock	-595,918,000.00	-13,830,000.00	-771,028,000.00	-292,440,471.58	-292,440,471.58	-292,440,471.58	-292,440,471.58

16	Other Investing Activities	-7,873,000.00	2,232,000.00	-25,030,000.00	N/A	N/A	N/A	N/A
17	Total Cash From Investing Activities	-472,487,000.00	-992,022,000.00	-161,367,000.00	-219,284,760.23	-226,656,262.55	-234,275,566.17	-242,151,001.19
18	Debt Repayments	-3,086,000.00	0.00	0.00	N/A	N/A	N/A	N/A
19	Dividends Paid	0.00	0.00	0.00	N/A	N/A	N/A	N/A
20	Purchase of Common Stock	-595,918,000.00	-13,830,000.00	-771,028,000.00	-292,440,471.58	-292,440,471.58	-292,440,471.58	-292,440,471.58
21	Common Stock Issued	72,936,000.00	45,723,000.00	64,015,000.00	N/A	N/A	N/A	N/A
22	Other Financing Activities	0.00	2,928,000.00	75,000.00	N/A	N/A	N/A	N/A
23	Total Cash From Financing Activities	-526,068,000.00	34,821,000.00	-706,938,000.00	-292,440,471.58	-292,440,471.58	-292,440,471.58	-292,440,471.58
24	Effect of Exchange Rate on Cash	16,848,000.00	-52,491,000.00	-38,715,000.00	-38715000	-52491000	16848000	-38715000
25	Total Change in Cash and Cash Equivalents	382,456,000.00	146,049,000.00	-19,321,000.00	549,089,472.09	839,597,861.48	1,272,689,883.44	1,649,634,898.68



#### Valuation Table:

	Item	Value
0	Beta	0.83
1	Enterprise Value	49,400,000,000.00
2	Risk Free Rate	0.04
3	Market Risk Premium	0.05
4	Cost of Equity	0.08
5	Cost Of Debt	0.00
6	Weighted Average Cost of Capital(WACC)	0.08
7	Total Net Present Value	0.00
8	Valuation	48.40
9	Growth Rate	-0.03

#### Excel Sheet:

- This has been included in the files of this repository under MNST DCF to make more visible

#### Conclusion:

- With two simple parameters, this program can generate all of the necessary information for a baseline DCF in under 30 seconds, utilizing information from a variety of online sources. It takes into account the current value of the stock when deciding valuation and will update all numbers on every run. Although the tool is not meant to make direct investments from, it can help save time, energy, and money for investment firms who are wasting precious resources on data gathering.