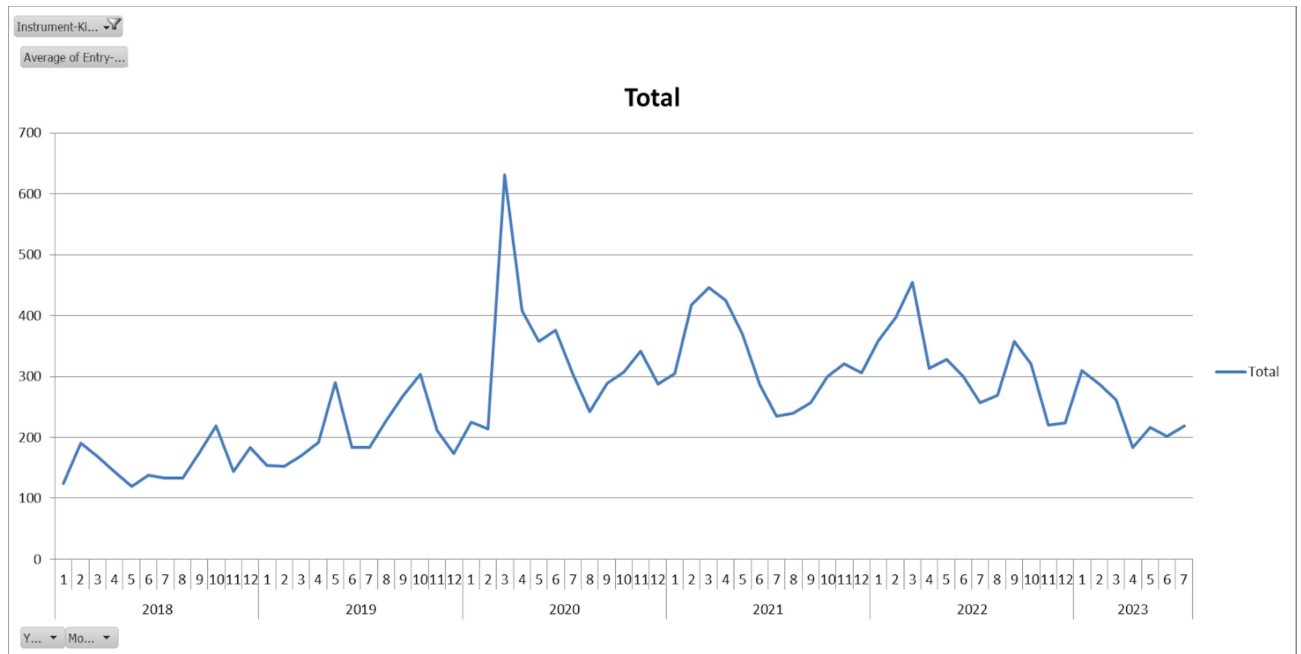


E01 - Data Analysis using Pivot Tables

(a) Data columns and their types

Index	Data Columns	Type
1	Entry-Date	Discrete
2	Entry-Weekday	Discrete
3	Entry-Time	Continuous
4	Entry-Price	Continuous
5	Quantity	Discrete
6	Instrument-Kind	Discrete
7	StrikePrice	Continuous
8	Position	Discrete
9	ExitDate	Discrete
10	Exit-Weekday	Discrete
11	ExitTime	Continuous
12	ExitPrice	Continuous
13	P/L	Continuous
14	P/L-Percentage	Continuous
15	ExpiryDate	Discrete
16	Remarks	Discrete
17	Highest-From-Entry-To-Exit	Continuous
18	Lowest-From-Entry-To-Exit	Continuous
19	Day	Discrete
20	Month	Discrete
21	Year	Discrete

(b) Average Entry-Price for every month of a year-



Interpretation-

Through this graph, we see variation of average entry price for every month of the year (2018 - 2023).

Here, we see that usually there are usually three peaks in a year with the highest being towards the end of the year that continues till the start of the next year.

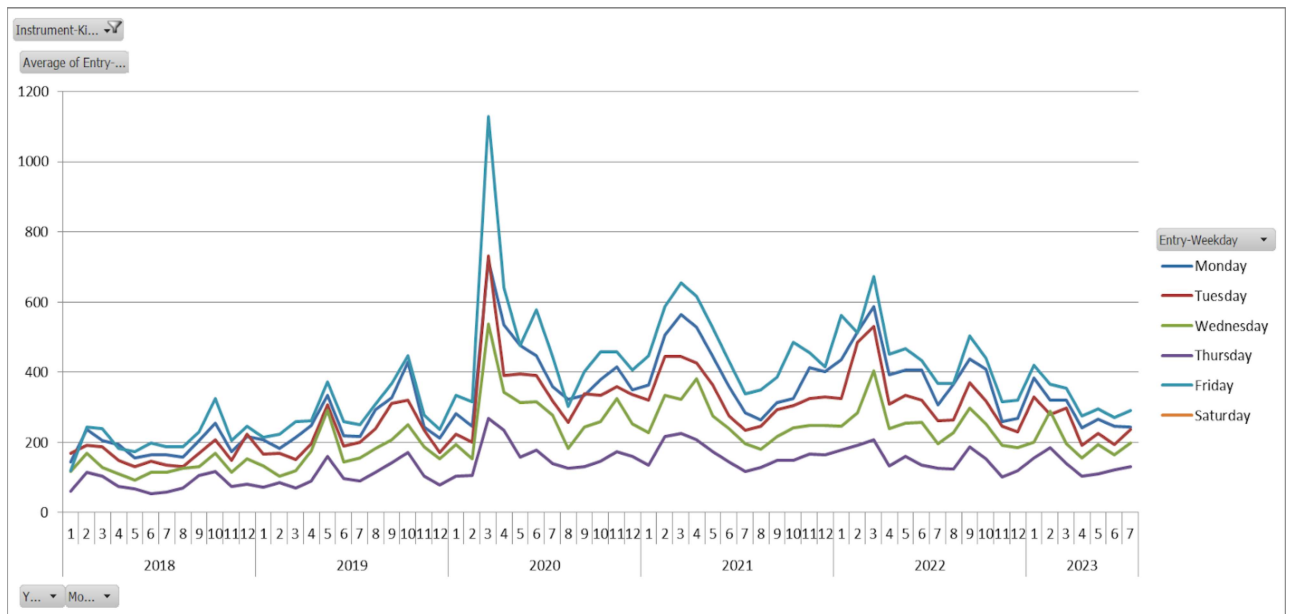
The time difference between the peaks is usually three to four months.

There was a particularly great spike in the price during the start of 2020 that even exceeded 600.

(c) Average Entry Price for every day of the week-

Average of Entry-Price		Column Labels					
Row Labels	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Grand Total
2018	189.7915094	162.8864583	127.9683673	78.95212766	211.4895833		155.1436735
1	143.94	168.43	116.8	60.5625	118.2333333		124.6727273
2	235.525	191.1833333	167.675	115.4	242.275		190.3710526
3	205.9375	186.4875	128.8	102.325	239.2333333		169.0473684
4	194.43	148.1125	108.975	73.2	182.3875		143.9452381
5	156.325	129.8	91.64	66.69	173.0625		119.4727273
6	164.3625	146.375	114.5875	52.925	197.65		138.1547619
7	164.67	135.6	114.1375	57.2	187.7875		133.5386364
8	157.8375	129.7625	125.3666667	69.47	186.77		133.7
9	205.05	167.725	130.3	104.45	229.05		174.3
10	254.34	206.875	167.74	116.4166667	325.2875		218.4904762
11	172.7375	148.925	114.5666667	74.775	204.8625		144.6789474
12	216.19	222.8666667	152.9625	81.5625	244.5375		183.29
2019	251.4880435	216.013	174.7691489	108.208	291.4872549		208.4405738
1	206.725	166.79	133.22	71.57	214.9		154.1043478
2	182.6625	167.9875	102.775	85.9375	222.9375		152.46
3	214.05	151.5125	119.5	69.78333333	258.47		169.8894737
4	248.4375	194.93	175.5833333	89.7	261.5833333		191.5105263
5	333.875	306.8875	290.475	159.68	372.01		290.1545455
6	217.55	188.8875	144.1	96.2875	260		183.3263158
7	216.58	200.87	155.77	88.675	249.95		183.5043478
8	292.35	238.3	183.1375	114.1875	308.73		228.16
9	327.9125	311.3833333	206.25	140.825	367.85		268.7105263
10	429.2	321.1875	249.0375	170.84	446.375		304.1578947
11	244.1125	233.7166667	185.8	103.975	278.24		211.395
12	212.57	170.67	154.0833333	78.0625	236.45		173.1666667
2020	405.7864583	355.054	280.8773585	158.4134615	462.1795455	497.3	327.3695565
1	281	222	193.5	104.21	333.55		224.7086957
2	245.2125	201.275	153.8125	105.9625	315.8166667	497.3	213.49
3	716.81	731.25	536.4625	268.8875	1127.85		630.85
4	533.6333333	390.1833333	343.03	233.3125	640.8		407.9027778
5	475.6833333	395.55	313.975	156.6625	475.3375		357.5342105
6	446.79	390.67	316.425	178.725	576.9833333		376.1357143
7	357.4625	317.6	276.39	139.06	444.07		304.2543478
8	323.18	256.1375	182.4125	126.0375	302.35		242.0785714
9	332.6125	338.14	242.43	130.1125	400.85		288.9613636
10	378.4375	333.35	259.4	146.93	456.8875		306.997619
11	414.3833333	358.175	325.3875	172.5875	458.2125		342.1368421
12	348.4625	335.35	251.65	159.47	405.5833333		288.3159091
2021	395.6460784	332.7715686	255.0377551	163.065625	472.121875		324.4338057
1	362.5	319.6166667	226.4375	134.85	447.56		304.59
2	506.1	443.8125	334.5	216.45	586.2875		417.43
3	563.4375	443.53	322.43	224.4833333	654.2		446.3714286
4	527.45	427.15	380.975	208.06	615.525		425.4078947
5	444.99	363.4	275	173.1833333	526.7		370.245
6	359.225	274.82	238.97	143.7375	430		286.4
7	284.1	234.1625	196.8666667	115.79	339.31		235.197619
8	264.23	245.7	180.6125	127.3166667	349.025		240.4833333
9	313.275	292.3625	215.2	147.47	385.9666667		256.847619
10	324.875	304.1125	240.45	148.925	484.4		300.5525
11	412.55	323.88	248.9625	166.8333333	454.575		320.4026316
12	401.3125	328.2125	247.49	163.85	415.18		306.5521739

2022	399.483	332.3645833	254.65625	152.5343137	443.296	316.1748988	
1	434.52	325.6125	244.7833333	178.775	560.8125	358.3875	
2	513.4625	484.675	282.975	191.65	513.2875	397.21	
3	586.8625	530.725	403.52	207.22	671.6333333	454.2357143	
4	393.5125	308.25	238.9875	133.2166667	450.3875	313.9052632	
5	406.96	333.0375	255.2875	160.775	467.125	328.5571429	
6	405.6375	319.95	257.12	134.91	432.7375	299.7022727	
7	306.675	261.2	195.1	126.325	368.17	257.05	
8	365.45	263.5125	227.3	123.4125	368.15	269.565	
9	436.925	370.7375	297.7875	186.95	502.38	357.6568182	
10	407.1625	317.1125	251.7	152.4375	439.775	320.5194444	
11	258.575	244.5375	191.24	99.9875	316.375	220.6714286	
12	267.425	229.025	184.15	120.15	320.51	223.8954545	
2023	293.0035714	252.9240741	198.9396552	134.3230769	328.6944444	242.1127737	
1	382.46	328.35	199.3625	154.8833333	420.55	309.4452381	
2	319.45	278.7	288.7875	184.3375	366.2375	287.5025	
3	321.2625	298.5	195.66	140.2125	353.76	261.3571429	
4	240.075	190.85	155.925	103.825	274.65	183.5970588	
5	265.1125	225.34	192.77	109.175	295.3625	216.7795455	
6	245.05	192.75	163.6625	122.175	270.74	202.297619	
7	242.6666667	235.55	198.7166667	129.6166667	291.45	219.6	
Grand Total	324.1353261	277.8310219	217.6752727	133.0563869	369.606903	497.3	264.2230629



Analysis-

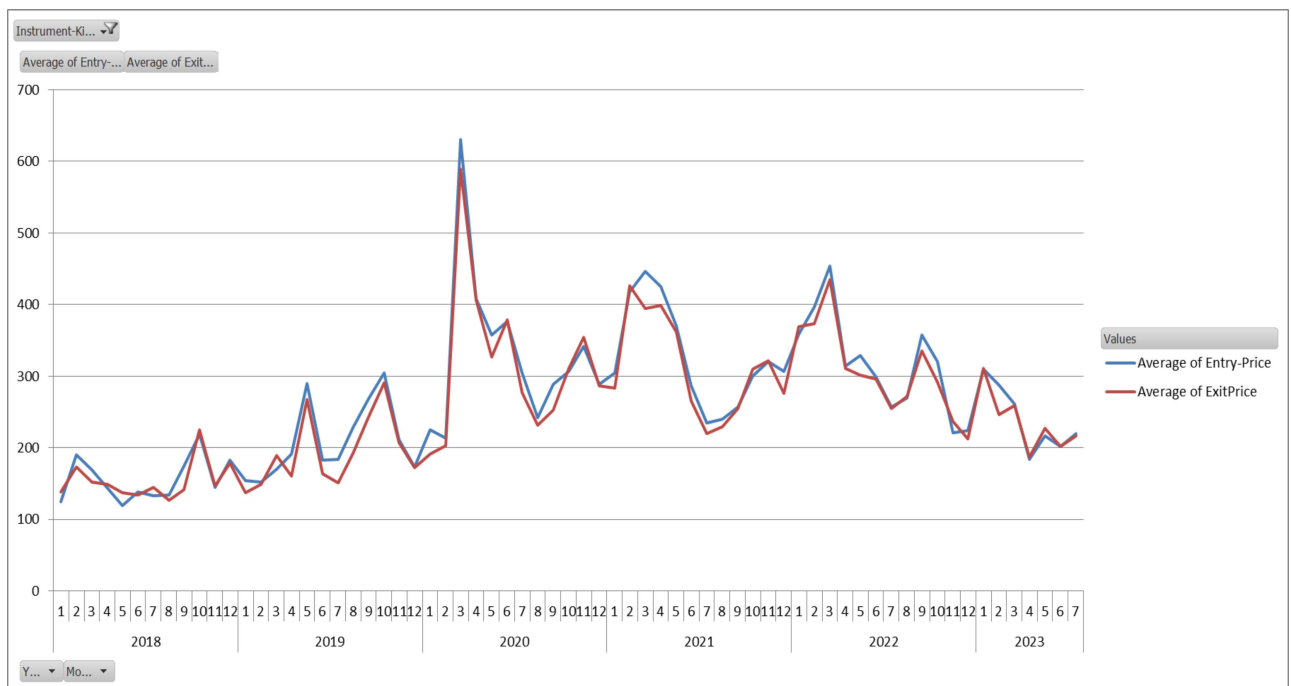
Through this graph, we see variation of average entry price for every day of every month of the year (2018 - 2023).

Here, we see that the qualitative nature of the graphs of the six days are quite similar.

Quantitatively, we see that entry price usually decreases from Monday to Thursday and then it shoots up to its maximum value on Friday (day just before weekend).

There is just only one entry for Saturday in Feb, 2020.

(d) Monthly Average Entry and Exit Price-

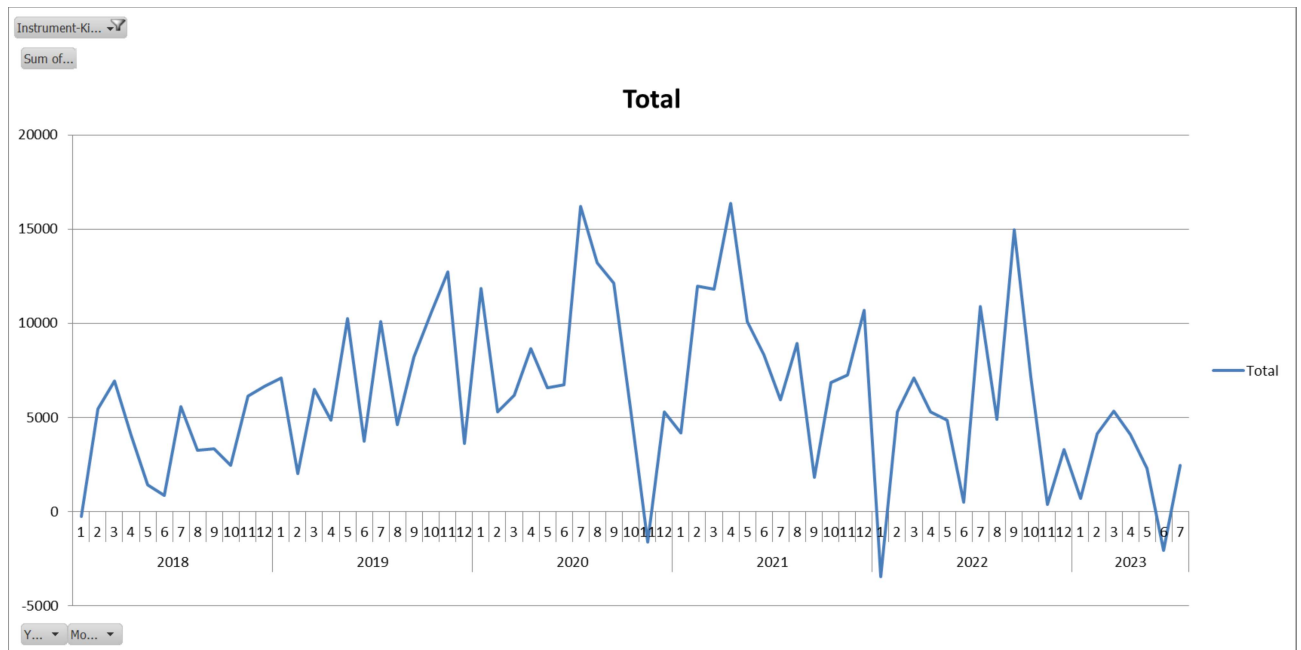


Analysis-

Here , we see the variation of average entry and average exit price for every month of the year (2018-2023).

We see that these both graphs usually follow the same type of variation which suggests that the market is usually less volatile and there is usually small profit or loss in the investment.

(e) Monthly P/L-

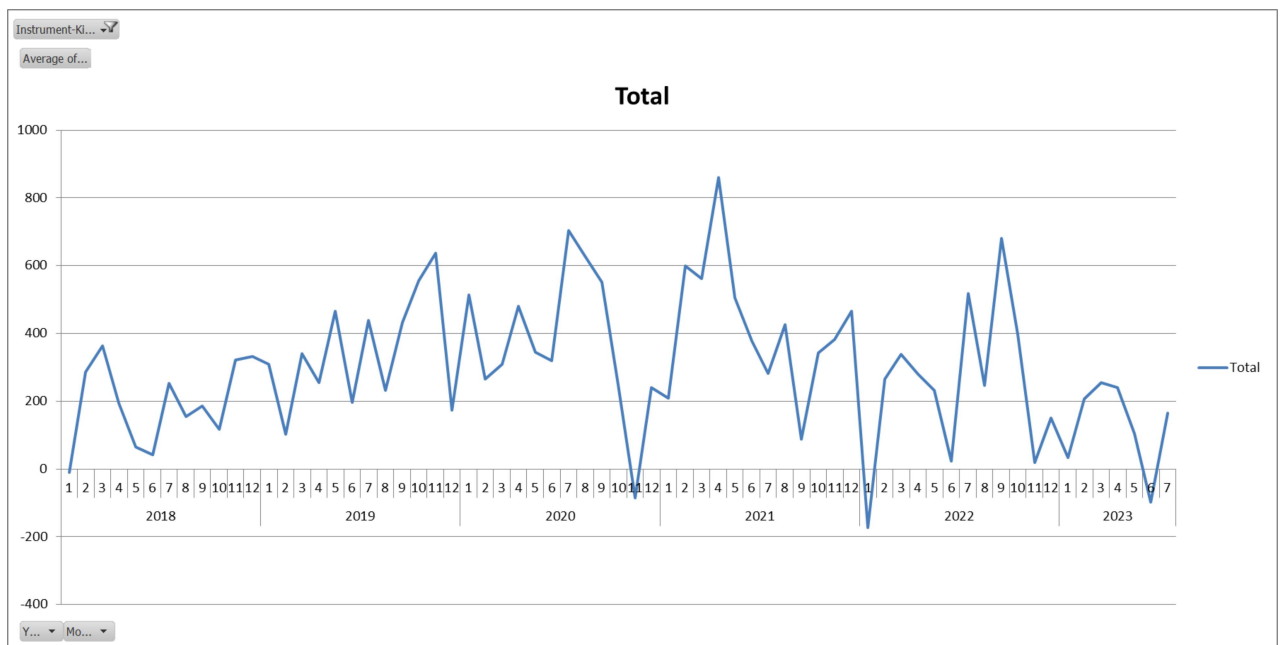


Analysis-

Here we see the variation of profit/loss for every month of the years (2018-2023).

Here we see that the investments are usually profitable with the exception during Nov 2020, Jan 2022 and June 2023 where we see that investors suffered loss in their investments.

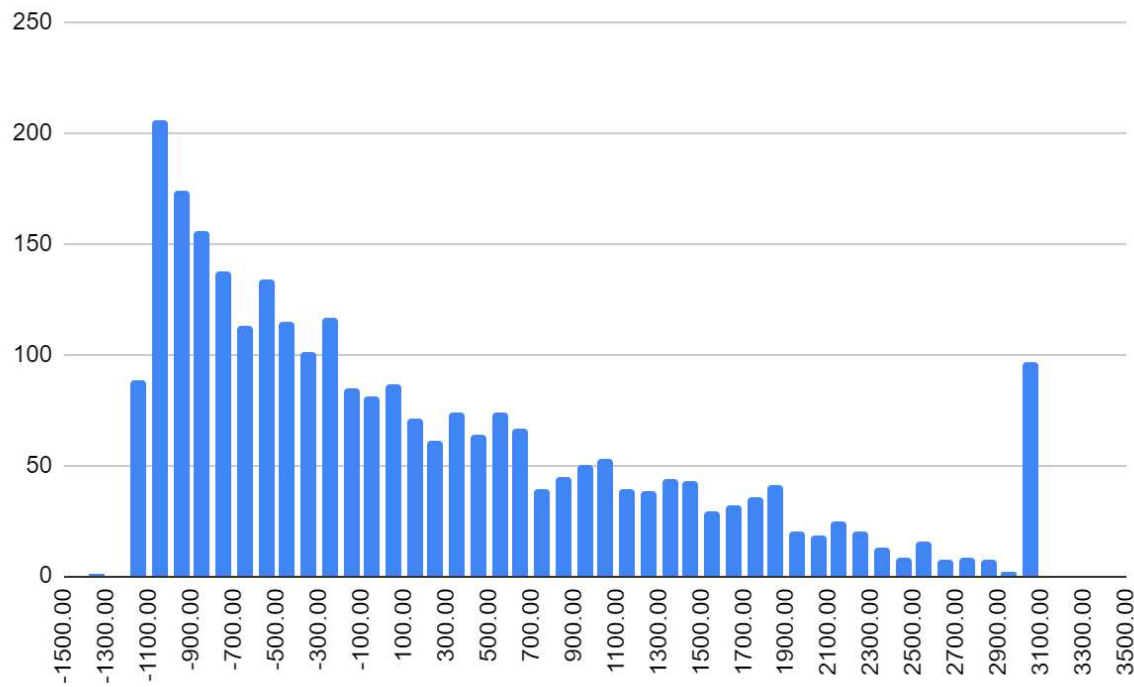
(f) Monthly Average P/L-



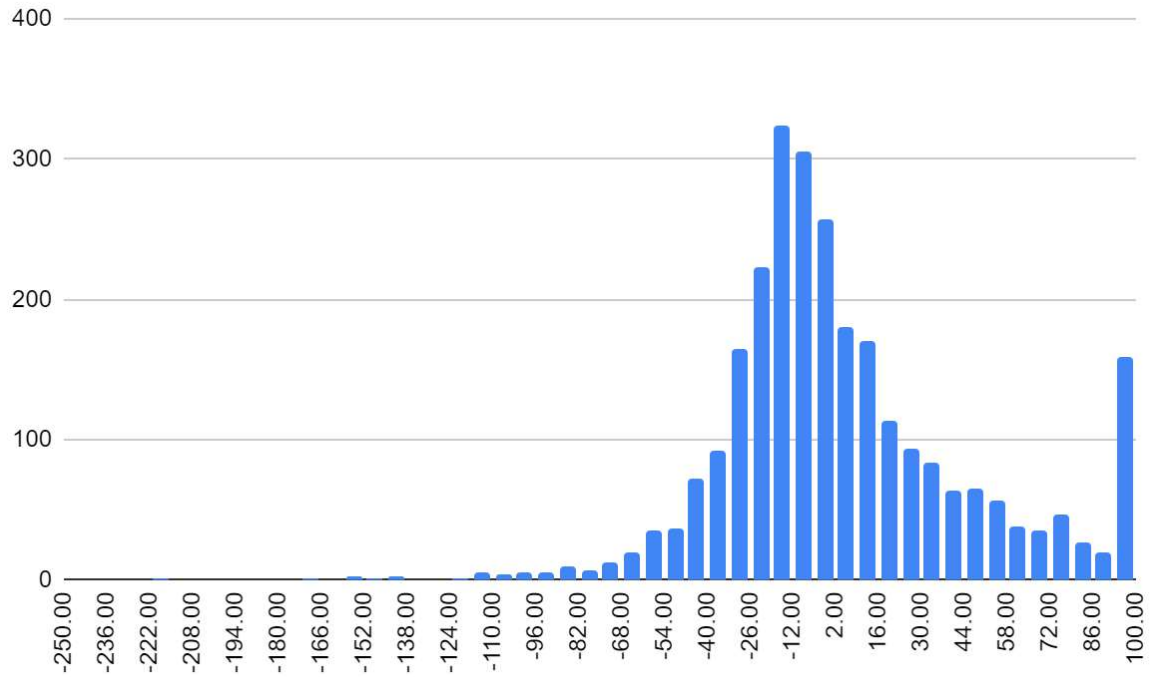
Analysis-

Here we see that the monthly average varies exactly like monthly sum.

(g) Histogram of P/L (CE and PE)-



h) Histogram of P/L percentage (CE and PE)-



Analysis-

Here we see that the above graph is like the dumbbell distribution curve.

