LAB REPORT

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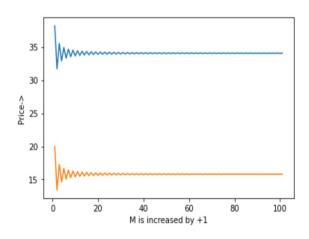
Question 1:

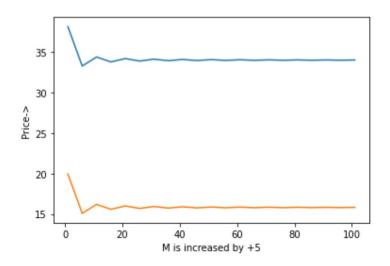
The initial option prices for varying values of M are tabulated below:

M	Initial Call option price	Initial Put option price
1	38.16763502522771	19.94171724772521
5	34.90653251138065	16.68061473387813
10	33.62502175314767	15.399103975645172
20	33.85944948849383	15.633531710991278
50	33.98118436571939	15.755266588217449
100	34.01116098479097	15.785243207287463
200	34.01957870440791	15.793660926904382
400	34.019131769005824	15.79321399150641

Question 2:

The following plots were obtained varying M ranging (0-100):





Question 3:The prices at different values of t are tabulated below:

ups 0	T'		
0	0	33.85944948849383	15.633531710991278
0	2	15.09587251387976	24.672817161536067
1	1	31.89325322224638	15.487143431401382
			8.479204228539844
			35.96530361639754
			24.98328656939406
			15.26943210857484
			8.00422345974074
			3.5041738979719725
			48.30495083519326
			36.97007206651646
			25.270959639777367
			14.963371872697078
			7.436262009137822
			2.998249745266072
			0.9424265244113356
			78.22822279375717
			72.35769482612885
			64.43331094390453
			53.85484171072243
			40.5333138464162
			25.955023925263937
			13.221828652306382
			4.958185582926971
			1.235702234238715
			0.17210275688518703
10	2	242.03018282001358	0.00870528162829172
11	1	359.93418379078935	0.0
12	0	519.099688850719	0.0
0	18	0.0	95.53406311515671
1	17	0.0	93.12931642139074
2	16	0.0	89.88324791682146
3	15	0.0	85.50151375593353
	14	0.0	79.58679130640233
			71.60275111353512
			60.82542413915251
			46.2775544006557
			26.639984302677387
			8.28121121914694
			0.6015461682626716
			0.0015401002020710
			0.0
			0.0
			0.0
			0.0
12	2	732.791598029106	0.0
	11 12 0 1	2 0 0 4 1 3 2 2 3 1 4 0 0 6 1 5 2 4 3 3 4 2 5 1 6 0 0 12 1 11 2 10 3 9 4 8 5 7 6 6 7 5 8 4 9 3 10 2 11 1 12 16 3 15 4 14 5 13 6 12 7 11 8 10 9 9 10 8 11 7 12 6 13 4 4 4 <	2 0 59.95876890092259 0 4 5.154831129992468 1 3 13.469716242796967 2 2 29.803955121326933 3 1 57.69999468717516 4 0 100.66266571336135 0 6 1.1250032145209163 1 5 4.121404621027413 2 4 11.767496962598832 3 3 27.57320423638379 4 2 55.29535567856726 5 1 98.43886924880032 6 0 160.61138775301708 0 12 0.0 1 11 0.0 2 10 0.0 3 9 0.1183301448516881 4 8 1.2359711338578985 5 7 6.148520463426525 6 6 19.725206220102635 7 5 46.97618778485102 8 4 91.19343329629586 9 3

1 1	17	1	1024.993372815408	0.0
	18	0	1419.4245121000376	0.0