Cell Kernel Widgets

Help



Python 3 (ipykernel) O

Not Trusted

Logout



Edit

View

Insert

BSE finance In [19]: from bsedata.bse import BSE import pandas as pd In [44]: b = BSE() print(b) Driver Class for Bombay Stock Exchange (BSE) In [45]: #to execute "updated ScriptCodes" b = BSE(update_codes = True) In [46]: q = b.getQuote('534976') Qdf = pd.DataFrame(q) Qdf Out[46]: companyName currentValue change pChange updatedOn priceBand securityID scripCode group faceValue ... weightedAvgPrice totalTradedValue tota V-MART 27 Jan 23 SRP 2721.85 56.70 VMART 534976 10.00 ... 2653.60 0.29 Cr. RETAIL LTD. 04:00 PM 500 S&P V-MART 27 Jan 23 | 2653.60 2 2721.85 56.70 2.13 VMART 534976 10.00 ... 0.29 Cr. RETAIL LTD. 04:00 PM BSE Α/ V-MART 27 Jan 23 | S&P 3 2721.85 56.70 2.13 VMART 534976 10.00 ... 2653.60 0.29 Cr. RETAIL LTD. 04:00 PM BSE 500 A/ S&P V-MART 27 Jan 23 | 2721.85 534976 10.00 ... 2653.60 0.29 Cr. 56.70 2.13 VMART RETAIL LTD. 04:00 PM BSE S&P BSE V-MART 27 Jan 23 2721.85 56.70 VMART 534976 10.00 ... 2653.60 0.29 Cr. RETAIL LTD. 04:00 PM 500 5 rows × 27 columns In [47]: tg = b.topGainers() tg_df = pd.DataFrame(tg) tg_df Out[47]: securityID scripCode LTP change pChange 0 SANDUMA 504918 952.05 59.70 6.69 1 TATAMOTORS 500570 445.55 26.55 6.34 JINDALSAW 500378 116.50 6.60 6.01 BAJAJ-AUTO 532977 3,937.70 220.30 5.93 4 CHENNPETRO 500110 12.25 241.65 5.34 In [49]: t1 = b.topLosers() tl_df = pd.DataFrame(tl) tl df Out[49]: securityID scripCode LTP change pChange 0 ATGL 542066 2,934.55 -733.60 1 ADANIGREEN 541450 1.484.50 -370.95 -19.99 2 ADANITRANS 539254 2.009.70 -502.05 -19.99 GTLINFRA 532775 0.87 -0.21 -19.44 540699 2,718.85 -645.80 DIXON -19 19 In [24]: #reading the List_Scrip.csv file for Script_Codes script_code = pd.read_csv('D:\\mydocs\\machine learning\\bse_finance\\Equity.csv') script_code Out[24]: Security Code Security Id Security Name Status Group Industry Ne^e Nam Sector Issuer Name Face Value ISIN No Industry Instrument ABB India ABB India Heavy Electrical Capital Electric 500002 ABB Active Α 2.00 INE117A01022 Equity Industrials Goods Equipme Equipment AEGIS Oil, Gas & Aegis 500003 AFGISLOG LOGISTICS Active Δ 1.00 INF208C01025 Trading - Gas Equity Energy Consumable Ga Logistics Ltd. LTD. Fuels

Auto

Components &

Equipments

Automobile

Aut

Componen

Equity Discretionary Components Consumer

Batteries Ltd AMARAJABAT

500008

AMARA RAJA

BATTERIES

LTD.

Active

A 1.00 INE885A01032

	500009	Sarabhai Enterprise Ltd.,	MBALALSA		ABHAI RISES LTD.	Active	х	10.00	INE432	2A01017	Pharmace	uticals Equit	y Healthcare	e Healthcare	Pharmaceutica & Biotechnolog
	500010	Housing Development Finance Corp.Lt	HDFC	DEVELOF FIN	USING	Active	А	2.00	INE00	1A01036	F	ousing nance Equity npany	Financia Services		Financ
	750758	Markolines Pavement Technologies Limited	MARKO-RE		kolines /ement ies Ltd	Active	R	0.05	INE0FV	V020016			-		
	750759	Indowind Energy Ltd.	INDO-RE	Indowind	Energy Ltd	Active	R	0.05	INE227	7G20018			-		
	780014	Has Lifestyle Limited	HASJUICE	Has Lifest	yle Ltd	Active	IP	10.00	INE888	3Q01016		Equit	у		
	780016	Web Element Solutions Limited	WEBSL	Web E Solution	lement	Active	IP	10.00	INE562	2Q01017		Equit	у		
	780018	Adhiraj Distributors Limited	ADHIRAJ	Distribut	Adhiraj ors Ltd	Active	IP	10.00	INE067	7R01015		Equit	У		
	4102 row	s × 14 columns													
	4														>
(code.columns													
Out[39]:		'Security Code 'Status', 'Gre 'Sector Name' type='object'	oup', 'Fa , 'Indust	ce Value	', 'IS	IN No',	'Indu	stry',	'Instr	ument'					
	NSE finance														
In [1]:	l]: from nsepy import get_history from datetime import date														
In [12]:	<pre>data = get_history(symbol='YESBANK', start=date(2023, 1, 31), end=date(2023, 1, 31)) #data[['Close']].plot(kind='line') data[['Prev Close']]</pre>														
Out[12]:															
	Date														
	2023-01-31 17.1														
In [15]:	#sbin[[get_history(sy <i>'Close']]</i> Prev Close',		IN', sta	rt=date	≘(2023,	1, 31), end	date(2	023, 2,	, 1))				
Out[15]:		Prev Close	Close												
	2023-01-	31 538.2	553 5												
In [4]:	stock =	get_history(: ["Turnover"]]	symbol='T	ATAMOTOR	S', sta	art=dat	e(2023	, 1, 1)), end=	date(20	923, 1, 2	27))			
	stock	['4'''	, ,												
Out[4]:	Da	•	I Series	Prev Close	Open	High	Low	Last	Close	VWAP	Volume	Turnover	Trades	Deliverable Volume	%Deliverble
	2023-0	1- 02 TATAMOTORS	S EQ	387.95	392.50	396.00	391.00	395.00	394.80	394.17	10501357	4.139355e+14	142685	3093993	0.2946
	2023-0	1- 03 TATAMOTORS	S EQ	394.80	396.00	398.35	393.00	393.90	393.90	395.21	9431220	3.727287e+14	133270	3054642	0.3239
	2023-0	1- 04 TATAMOTORS	EQ.	393.90	394.80	394.80	385.00	385.75	385.60	387.30	16121049	6.243666e+14	172074	8186814	0.5078
	2023-0	1- 05 TATAMOTORS	S EQ	385.60	387.90	388.75	382.50	387.00	386.90	386.13	10443908	4.032692e+14	130918	4250557	0.4070
	2023-0	1- 06 TATAMOTORS	EQ.	386.90	386.10	388.40	381.00	382.05	382.00	384.04	8715469	3.347122e+14	147467	3787825	0.4346
	2023-0	1- 109 TATAMOTORS	S EQ	382.00	386.35	392.70	385.00	388.95	389.45	389.87	14693099	5.728445e+14	167573	7169022	0.4879
	2023-0	1		200.45	100.00		400.00	412 50	412 90	411.86	54021379	2.224949e+15	467152		
		10 TATAMOTORS	S EQ	309.40	400.00	417.75	400.00	112.00						15127215	0.2800
	2023-0	10 TATAMOTORS				417.75						9.281097e+14	220634	15127215 9560380	0.2800
	2023-0	1- TATAMOTORS 11- TATAMOTORS	S EQ	412.90	415.75	420.00	413.55	417.20	418.20	417.61	22224361	9.281097e+14 5.174961e+14			
	2023-0 2023-0 2023-0	1- TATAMOTORS 1- TATAMOTORS 1- TATAMOTORS	S EQ	412.90 418.20	415.75 420.30	420.00 420.50	413.55 410.05	417.20 412.20	418.20 412.25	417.61 414.69	22224361 12479034		143171	9560380	0.4302
	2023-0 2023-0 2023-0	1- TATAMOTORS 1- TATAMOTORS 1- TATAMOTORS 1- TATAMOTORS	EQ EQ EQ	412.90 418.20 412.25	415.75 420.30 413.00	420.00 420.50 416.35	413.55 410.05 408.00	417.20 412.20 411.70	418.20 412.25 411.50	417.61 414.69 411.59	22224361 12479034 10449630	5.174961e+14 4.300974e+14	143171 129743	9560380 4850395 3366155	0.4302 0.3887 0.3221
	2023-0 2023-0 2023-0	1- TATAMOTORS 11- TATAMOTORS 11- TATAMOTORS 13- TATAMOTORS 14- TATAMOTORS	EQ EQ EQ	412.90 418.20 412.25	415.75 420.30 413.00	420.00 420.50 416.35	413.55 410.05 408.00	417.20 412.20 411.70	418.20 412.25 411.50	417.61 414.69 411.59	22224361 12479034 10449630	5.174961e+14	143171 129743	9560380 4850395	0.4302 0.3887

2023-01- 18	TATAMOTORS	EQ	415.30	415.90	415.95	407.45	408.80	408.40	409.94	13310316	5.456490e+14	201954	7210959	0.5418
2023-01- 19	TATAMOTORS	EQ	408.40	406.50	407.80	400.10	400.75	400.75	403.93	13126520	5.302207e+14	209594	6174365	0.4704
2023-01- 20	TATAMOTORS	EQ	400.75	404.00	412.50	401.20	402.95	403.15	406.24	23906114	9.711560e+14	227306	10926518	0.4571
2023-01- 23	TATAMOTORS	EQ	403.15	407.00	410.95	405.00	408.00	408.40	409.03	13113183	5.363653e+14	144746	7326220	0.5587
2023-01- 24	TATAMOTORS	EQ	408.40	410.00	424.00	410.00	422.00	422.15	419.81	30197475	1.267716e+15	281507	14336646	0.4748
2023-01- 25	TATAMOTORS	EQ	422.15	423.75	427.25	417.70	418.60	419.05	420.93	22975581	9.671024e+14	260064	10184357	0.4433
2023-01- 27	TATAMOTORS	EQ	419.05	438.00	453.40	435.15	445.25	445.60	444.86	63360467	2.818651e+15	621705	21810513	0.3442

executing stock_market through nsetools

	e	kecutin	g st	ock_n	iarkei	inro	ugn	nsetooi	5				
In [16]:	fro	m nsetools :	import	Nse									
In [17]:		= Nse() nt(nse)											
	Dri	ver Class f	or Nat	ional Sto	ck Exchan	ge (NSE)							
In [20]:		nse.get_que a = pd.Data a			[1])								
Out[20]:		pricebanduppe	er syml	ool applicat	oleMargin I	bcEndDate	totalSel	Quantity adho	cMargin	companyName	marketType exDa	te bcStartDate buyQuar	ntity3 bu
	1	99956.	.3 M	RF	14.14	None		1.0	None	MRF Limited	N NO	7- V- None 22	None
	1 rc	ows × 68 colun	nns										
	4)
n [21]:		_gainers = DataFrame(to			ners()								
Out[21]:		symbol	series	openPrice	highPrice	lowPrice	Itp	previousPrice	netPrice	tradedQuantity	turnoverlnLakhs	lastCorpAnnouncementDate	lastCor
	0	ICICIBANK	EQ	843.45	875.20	823.15	850.05	831.90	2.18	39237711.0	334768.30	08-Aug-2022	Di
	1	JSWSTEEL	EQ	722.00	738.70	719.80	731.45	716.45	2.09	3271508.0	23848.31	04 - Jul-2022	Meet
	2	ITC	EQ	353.00	365.70	329.10	359.60	352.35	2.06	64518967.0	228235.85	26-May-2022	Divide
	3	TATASTEEL	EQ	120.10	124.15	119.30	122.05	119.70	1.96	72919626.0	89078.62	28-Jul-2022	Face Di
	4	BRITANNIA	EQ	4329.90	4444.50	4326.85	4389.95	4317.60	1.68	622541.0	27271.22	20-Jun-2022	Meet
	5	CIPLA	EQ	1019.00	1035.90	1015.10	1033.00	1017.95	1.48	1598213.0	16442.73	08-Aug-2022	Di
	6	HDFCBANK	EQ	1624.00	1665.00	1606.00	1625.50	1603.50	1.37	8651395.0	141324.00	12-May-2022	Divide
	7	TATACONSUM	EQ	737.25	748.40	731.25	739.10	729.50	1.32	933031.0	6908.63	09-Jun-2022	Meet
	8	EICHERMOT	EQ	3280.00	3354.95	3240.00	3305.70	3263.35	1.30	885327.0	29249.34	12-Aug-2022	Meeting
	9	HDFC	EQ	2650.00	2729.85	2620.50	2655.00	2622.95	1.22	4406327.0	117621.61	31-May-2022	Div
	4												>
In [22]:		_losers = n: DataFrame(te			rs()								
out[22]:		symbol	series	openPrice	highPrice	lowPrice	ltp	previousPrice	netPrice	tradedQuantity	turnoverInLakhs	lastCorpAnnouncementDate	lastCorp
	0	ADANIENT	EQ	2995.00	3010.75	1941.20	2179.75	2973.90	-26.70	13525314.0	343571.38	14-Jul-2022	Div
	1	ADANIPORTS	EQ	627.00	629.00	459.50	504.00	612.65	-17.73	46557720.0	253558.00	14-Jul-2022	Div
	2	HDFCLIFE	EQ	582.90	584.65	502.35	516.40	578.85	-10.79	22671272.0	120091.99	31-May-2022	Divide
	3	SBILIFE	EQ	1219.55	1228.75	1068.85	1114.50	1219.55	-8.61	8470232.0	96243.01	29-Mar-2022	Interin
	4	BAJAJFINSV	EQ	1348.00	1360.00	1246.85	1269.35	1342.45	-5.45	4761664.0	61545.46	13-Sep-2022	Face Division)
	5	SBIN	EQ	561.40	565.00	499.35	527.00	553.50	-4.79	38218810.0	206920.46	25-May-2022	Divide
	6	INDUSINDBK	EQ	1094.00	1119.00	990.00	1040.40	1082.95	-3.93	7563064.0	81138.06	11-Aug-2022	Meeti

	7	BPCL	EQ	343.25	344.70	330.00	335.45	343.25	-2.27	4179113.0	14117.88	19-Aug-2022	Meetinç
	8	UPL	EQ	765.10	771.60	730.00	740.00	757.20	-2.27	3623038.0	27188.36	27-Jul-2022	Divid
	9	M&M	EQ	1386.55	1390.00	1322.00	1350.10	1378.75	-2.08	3010838.0	41115.40	14-Jul-2022	Meeti
	4												•
In []:													