Read & Write CSV File

```
In [16]: import numpy as np
import pandas as pd

In [6]: content = pd.read_csv('titanic.csv', sep= ':')
content
```

Out[6]:

Passengerld Survived Pclass Name Sex Age SibSp Parch Ticket Fare Cabin Embarked

0	1\t0\t3\tBraund, Mr. Owen Harris\tmale\t22\t1\
1	2\t1\t1\tCumings, Mrs. John Bradley (Florence
2	3\t1\t3\tHeikkinen, Miss. Laina\tfemale\t26\t0
3	4\t1\t1\tFutrelle, Mrs. Jacques Heath (Lily Ma
4	5\t0\t3\tAllen, Mr. William Henry\tmale\t35\t0
5	6\t0\t3\tMoran, Mr. James\tmale\t\t0\t0\t33087
6	7\t0\t1\tMcCarthy, Mr. Timothy J\tmale\t54\t0\
7	8\t0\t3\tPalsson, Master. Gosta Leonard\tmale\
8	9\t1\t3\tJohnson, Mrs. Oscar W (Elisabeth Vilh
9	10\t1\t2\tNasser, Mrs. Nicholas (Adele Achem)\
10	11\t1\t3\tSandstrom, Miss. Marguerite Rut\tfem
11	12\t1\t1\tBonnell, Miss. Elizabeth\tfemale\t58
12	13\t0\t3\tSaundercock, Mr. William Henry\tmale
13	14\t0\t3\tAndersson, Mr. Anders Johan\tmale\t3
14	15\t0\t3\tVestrom, Miss. Hulda Amanda Adolfina

	Passengerld Survived Pclass Name Sex Age SibSp Parch Ticket Fare Cabin Embarked
15	16\t1\t2\tHewlett, Mrs. (Mary D Kingcome) \tfe
16	17\t0\t3\tRice, Master. Eugene\tmale\t2\t4\t1\
17	18\t1\t2\tWilliams, Mr. Charles Eugene\tmale\t
18	19\t0\t3\tVander Planke, Mrs. Julius (Emelia M
19	20\t1\t3\tMasselmani, Mrs. Fatima\tfemale\t\t0
20	21\t0\t2\tFynney, Mr. Joseph J\tmale\t35\t0\t0
21	22\t1\t2\tBeesley, Mr. Lawrence\tmale\t34\t0\t
22	23\t1\t3\tMcGowan, Miss. Anna "Annie"\tfemale\
23	24\t1\t1\tSloper, Mr. William Thompson\tmale\t
24	25\t0\t3\tPalsson, Miss. Torborg Danira\tfemal
25	26\t1\t3\tAsplund, Mrs. Carl Oscar (Selma Augu
26	27\t0\t3\tEmir, Mr. Farred Chehab\tmale\t\t0\t
27	28\t0\t1\tFortune, Mr. Charles Alexander\tmale
28	29\t1\t3\tO'Dwyer, Miss. Ellen "Nellie"\tfemal
29	30\t0\t3\tTodoroff, Mr. Lalio\tmale\t\t0\t3
126	127\t0\t3\tMcMahon, Mr. Martin\tmale\t\t0\t0\t
127	128\t1\t3\tMadsen, Mr. Fridtjof Arne\tmale\t24
128	129\t1\t3\tPeter, Miss. Anna\tfemale\t\t1\t1
129	130\t0\t3\tEkstrom, Mr. Johan\tmale\t45\t0\t0\
130	131\t0\t3\tDrazenoic, Mr. Jozef\tmale\t33\t0\t
131	132\t0\t3\tCoelho, Mr. Domingos Fernandeo\tmal
132	133\t0\t3\tRobins, Mrs. Alexander A (Grace Cha
133	134\t1\t2\tWeisz, Mrs. Leopold (Mathilde Franc
134	135\t0\t2\tSobey, Mr. Samuel James Hayden\tmal

	Passengerld Survived Pclass Name Sex Age SibSp Parch Ticket Fare Cabin Embarked
135	136\t0\t2\tRichard, Mr. Emile\tmale\t23\t0\t0\
136	137\t1\t1\tNewsom, Miss. Helen Monypeny\tfemal
137	138\t0\t1\tFutrelle, Mr. Jacques Heath\tmale\t
138	139\t0\t3\tOsen, Mr. Olaf Elon\tmale\t16\t0\t0
139	140\t0\t1\tGiglio, Mr. Victor\tmale\t24\t0\t0\
140	141\t0\t3\tBoulos, Mrs. Joseph (Sultana)\tfema
141	142\t1\t3\tNysten, Miss. Anna Sofia\tfemale\t2
142	143\t1\t3\tHakkarainen, Mrs. Pekka Pietari (El
143	144\t0\t3\tBurke, Mr. Jeremiah\tmale\t19\t0\t0
144	145\t0\t2\tAndrew, Mr. Edgardo Samuel\tmale\t1
145	146\t0\t2\tNicholls, Mr. Joseph Charles\tmale\
146	147\t1\t3\tAndersson, Mr. August Edvard ("Wenn
147	148\t0\t3\tFord, Miss. Robina Maggie "Ruby"\tf
148	149\t0\t2\tNavratil, Mr. Michel ("Louis M Hoff
149	150\t0\t2\tByles, Rev. Thomas Roussel Davids\t
150	151\t0\t2\tBateman, Rev. Robert James\tmale\t5
151	152\t1\t1\tPears, Mrs. Thomas (Edith Wearne)\t
152	153\t0\t3\tMeo, Mr. Alfonzo\tmale\t55.5\t0\t0\
153	154\t0\t3\tvan Billiard, Mr. Austin Blyler\tma
154	155\t0\t3\tOlsen, Mr. Ole Martin\tmale\t\t0\t0
155	156\t0\t1\tWilliams, Mr. Charles Duane\tmale\t
156 r	rows × 1 columns

156 rows × 1 columns

```
In [5]: type (content)
```

Out[5]: pandas.core.frame.DataFrame

```
content.head()
 In [9]:
 Out[9]:
                Passengerld Survived Pclass Name Sex Age SibSp Parch Ticket Fare Cabin Embarked
             0
                                                        1\t0\t3\tBraund, Mr. Owen Harris\tmale\t22\t1\...
              1
                                                       2\t1\t1\tCumings, Mrs. John Bradley (Florence ...
              2
                                                         3\t1\t3\tHeikkinen, Miss. Laina\tfemale\t26\t0...
              3
                                                         4\t1\t1\tFutrelle, Mrs. Jacques Heath (Lily Ma...
                                                         5\t0\t3\tAllen, Mr. William Henry\tmale\t35\t0...
            content.to csv('new.csv', index=True)
In [12]:
            df= pd.read_csv("DataFile/balance-sheets.csv")
 In [5]:
            df
 Out[5]:
                        Year Institutional_sector_name Institutional_sector_code Descriptor SNA08TRANS As
                                                                                      Capital
                                                                                     Account
                                      Corporate business
                                                                                     Opening
                  0 2008.03
                                                                                                    LS00000
                                                                             141
                                             enterprises
                                                                                     balances
                                                                                    Produced
                                                                                       non-...
                                                                                      Capital
                                                                                     Account
                                      Corporate business
                                                                                     Opening
                  1 2009.03
                                                                                                    LS00000
                                             enterprises
                                                                                     balances
                                                                                    Produced
                                                                                       non-...
                                                                                      Capital
                                                                                     Account
                                      Corporate business
                                                                                     Opening
                                                                                                    LS00000
                  2 2010.03
                                                                             141
                                             enterprises
                                                                                     balances
                                                                                    Produced
                                                                                       non-...
```

Yea	r Institutional_sector_name	Institutional_sector_code	Descriptor	SNA08TRANS	As
3 2011.0	3 Corporate business enterprises	141	Capital Account Opening balances Produced non	LS00000	
4 2012.0	Corporate business enterprises	141	Capital Account Opening balances Produced non	LS00000	
5 2013.0	Corporate business enterprises	141	Capital Account Opening balances Produced non	LS00000	
6 2014.0	Corporate business enterprises	141	Capital Account Opening balances Produced non	LS00000	
7 2015.0	3 Corporate business enterprises	141	Capital Account Opening balances Produced non	LS00000	
8 2016.0	Corporate business enterprises	141	Capital Account Opening balances Produced non	LS00000	

	Year	Institutional_sector_name	Institutional_sector_code	Descriptor	SNA08TRANS	As
9	2017.03	Corporate business enterprises	141	Capital Account Opening balances Produced non	LS00000	
10	2008.03	Corporate business enterprises	141	Capital Account Opening balances Non- produced	LS00000	
11	2009.03	Corporate business enterprises	141	Capital Account Opening balances Non- produced	LS00000	
12	2010.03	Corporate business enterprises	141	Capital Account Opening balances Non- produced	LS00000	
13	2011.03	Corporate business enterprises	141	Capital Account Opening balances Non- produced	LS00000	
14	2012.03	Corporate business enterprises	141	Capital Account Opening balances Non- produced	LS00000	

	Year	Institutional_sector_name	Institutional_sector_code	Descriptor	SNA08TRANS	As
15 2	2013.03	Corporate business enterprises	141	Capital Account Opening balances Non- produced	LS00000	
16 2	2014.03	Corporate business enterprises	141	Capital Account Opening balances Non- produced	LS00000	
17 2	2015.03	Corporate business enterprises	141	Capital Account Opening balances Non- produced	LS00000	
18 2	2016.03	Corporate business enterprises	141	Capital Account Opening balances Non- produced	LS00000	
19 2	2017.03	Corporate business enterprises	141	Capital Account Opening balances Non- produced	LS00000	
20 2	2008.03	Corporate business enterprises	141	Capital Account Opening balances Total non- fin	LS00000	

	Year	Institutional_sector_name	Institutional_sector_code	Descriptor	SNA08TRANS	As
21	2009.03	Corporate business enterprises	141	Capital Account Opening balances Total non- fin	LS00000	
22	2010.03	Corporate business enterprises	141	Capital Account Opening balances Total non- fin	LS00000	
23	2011.03	Corporate business enterprises	141	Capital Account Opening balances Total non- fin	LS00000	
24	2012.03	Corporate business enterprises	141	Capital Account Opening balances Total non- fin	LS00000	
25	2013.03	Corporate business enterprises	141	Capital Account Opening balances Total non- fin	LS00000	
26	2014.03	Corporate business enterprises	141	Capital Account Opening balances Total non- fin	LS00000	

	Year	Institutional_sector_name	Institutional_sector_code	Descriptor	SNA08TRANS	As
27	2015.03	Corporate business enterprises	141	Capital Account Opening balances Total non- fin	LS00000	
28	2016.03	Corporate business enterprises	141	Capital Account Opening balances Total non- fin	LS00000	
29	2017.03	Corporate business enterprises	141	Capital Account Opening balances Total non- fin	LS00000	
18690	2008.03	Pension funds	261	Financial liabilities Closing balance financia	LE00000	
18691	2009.03	Pension funds	261	Financial liabilities Closing balance financia	LE00000	
18692	2010.03	Pension funds	261	Financial liabilities Closing balance financia	LE00000	
18693	2011.03	Pension funds	261	Financial liabilities Closing balance financia	LE00000	

	Year	Institutional_sector_name	Institutional_sector_code	Descriptor	SNA08TRANS	As
18694	2012.03	Pension funds	261	Financial liabilities Closing balance financia	LE00000	
18695	2013.03	Pension funds	261	Financial liabilities Closing balance financia	LE00000	
18696	2014.03	Pension funds	261	Financial liabilities Closing balance financia	LE00000	
18697	2015.03	Pension funds	261	Financial liabilities Closing balance financia	LE00000	
18698	2016.03	Pension funds	261	Financial liabilities Closing balance financia	LE00000	
18699	2017.03	Pension funds	261	Financial liabilities Closing balance financia	LE00000	
18700	2008.03	Pension funds	261	Financial liabilities Closing balance other ac	LE00000	

	Year	Institutional_sector_name	Institutional_sector_code	Descriptor	SNA08TRANS	As
18701	2009.03	Pension funds	261	Financial liabilities Closing balance other ac	LE00000	
18702	2010.03	Pension funds	261	Financial liabilities Closing balance other ac	LE00000	
18703	2011.03	Pension funds	261	Financial liabilities Closing balance other ac	LE00000	
18704	2012.03	Pension funds	261	Financial liabilities Closing balance other ac	LE00000	
18705	2013.03	Pension funds	261	Financial liabilities Closing balance other ac	LE00000	
18706	2014.03	Pension funds	261	Financial liabilities Closing balance other ac	LE00000	
18707	2015.03	Pension funds	261	Financial liabilities Closing balance other ac	LE00000	

	Year	Institutional_sector_name	Institutional_sector_code	Descriptor	SNA08TRANS	As
18708	2016.03	Pension funds	261	Financial liabilities Closing balance other ac	LE00000	
18709	2017.03	Pension funds	261	Financial liabilities Closing balance other ac	LE00000	
18710	2008.03	Pension funds	261	Financial liabilities Closing balance Total fi	LE00000	
18711	2009.03	Pension funds	261	Financial liabilities Closing balance Total fi	LE00000	
18712	2010.03	Pension funds	261	Financial liabilities Closing balance Total fi	LE00000	
18713	2011.03	Pension funds	261	Financial liabilities Closing balance Total fi	LE00000	
18714	2012.03	Pension funds	261	Financial liabilities Closing balance Total fi	LE00000	

	Year	Institutional_sector_name	Institutional_sector_code	Descriptor	SNA08TRANS	As
18715	2013.03	Pension funds	261	Financial liabilities Closing balance Total fi	LE00000	
18716	2014.03	Pension funds	261	Financial liabilities Closing balance Total fi	LE00000	
18717	2015.03	Pension funds	261	Financial liabilities Closing balance Total fi	LE00000	
18718	2016.03	Pension funds	261	Financial liabilities Closing balance Total fi	LE00000	
18719	2017.03	Pension funds	261	Financial liabilities Closing balance Total fi	LE00000	
18720 r	ows × 8 o	columns				
4						•

Read & Write Excel File

```
In [6]: import pandas as pd

def convert_Name_cell (cell):
    if cell== "NaN":
        return 'No Data'
    return cell
```

df = pd.read_excel("DataFile/Groups Contact List.xlsx", "Sheet1", nrows=4
8 ,converters={'Name':convert_Name_cell})
df

Out[6]:

	Name	Email	Floor Number	Group Number	Phone No.	\$
0	Syed Mohammad Moinul Islam Robin	moinul.i.robin@gmail.com	18.0	1.0	1.670201e+09	Professor Mi
1	Nusrat Jahan Kanta	nusrat.kanta123@gmail.com	18.0	1.0	1.679508e+09	michael.s.wang.38(
2	Syumaiya Tasmim Nuha	nuha.khan4@gmail.com	18.0	1.0	1.682159e+09	Skype ID: z
3	Tahira Bishwas Anny	tahiraanny@gmail.com	18.0	2.0	1.684483e+09	
4	Sayera Aznabi	aznabisayera888@gmail.com	18.0	2.0	1.686382e+09	
5	Md. Sanaullah Novel	sun.cse93@gmail.com	18.0	2.0	1.673962e+09	
6	Md. Raihan-Al- Masud	raihan.emasud@gmail.com	18.0	3.0	1.670269e+09	
7	Syed Nayeem Ridwan	nsu.snr@gmail.com	18.0	3.0	1.672798e+09	
8	Md. Aminur Rahman	aminrahman20@gmail.com	18.0	3.0	1.793518e+09	
9	Hisham I Ahmed	hishamazahmed@gmail.com	18.0	4.0	1.717955e+09	

	Name	Email	Floor Number	Group Number	Phone No.	\$
10	AZM Ariful Haque Real	a.aquereal@northsouth.edu	18.0	4.0	1.911228e+09	
11	Md. Sadid Tahsin	tamim.tm@gmail.com	18.0	4.0	1.717924e+09	
12	Md. Hasan Mahmud	rumman3000@gmail.com	18.0	5.0	1.935899e+09	
13	Md. Eleus Ali	eleus.apon@gmail.com	18.0	5.0	1.681932e+09	
14	Md. Shiddiqur Rahman	sumonqb@gmail.com	18.0	5.0	1.761014e+09	
15	Avijit Nandi	avijitnandinew@gmail.com	18.0	6.0	1.737880e+09	
16	Mohammad Mohiuddin	mohiuddin.bapparaj@gmail.com	18.0	6.0	1.670241e+09	
17	Md. Asif Shahjalal	asif.cuet93@gmail.com	18.0	6.0	NaN	
18	Robiul Hossain Shah	imran2t11@gmail.com	18.0	7.0	1.917490e+09	
19	Md. Sarzil Mehrab	sarzil.pust@gmail.com	18.0	7.0	1.728655e+09	
20	Md. Sayedur Rahman	sayedurcse20@gmail.com	18.0	7.0	1.686382e+09	
21	Zafrin Malek Mithila	zmmithila@gmail.com	18.0	8.0	1.676339e+09	
22	Tahmid Chowdhury	tahmidchowdhury85@yahoo.com	18.0	8.0	1.681174e+09	
23	Rashed Bishal	rashed.bishal@gmail.com	18.0	8.0	1.520103e+09	

	Name	Email	Floor Number	Group Number	Phone No.	
24	Md. Raju Ahmed	engrraju36@gmail.com	18.0	9.0	1.721587e+09	
25	Md. Mahmudun Nabi	pallobeee49@gmail.com	18.0	9.0	1.670641e+09	
26	Md. Saiful Islam	bpmdsaiful@gmail.com	18.0	9.0	1.671036e+09	
27	Rajwana Sultana	rejurajwana17@gmail.com	18.0	10.0	1.813739e+09	
28	Md. Rakibul Hasan	aporbo.hasan@gmail.com	18.0	10.0	1.516176e+09	
29	Tanjia Rahman Priya	tanjiapriyaeee12@gmail.com	18.0	10.0	1.775572e+09	
30	Ratul	karigor93@gmail.com	18.0	11.0	1.670733e+09	
31	Ishrak Ahmed	ishrak.ahmed2@gmail.com	18.0	11.0	1.674756e+09	
32	Sadia Sharmin	sadiasharminliza@gmail.com	18.0	11.0	1.685069e+09	
33	A. F. M. Sanjan Rahman	sazid243@gmail.com	18.0	12.0	1.677756e+09	
34	Zahidul Alam Emon	emon.mailme@gmail.com	18.0	12.0	1.624647e+09	
35	Rakibul Islam	rakibulroyal@gmail.com	18.0	12.0	1.673259e+09	
36	Mirja Wakil	bipumirja@gmail.com	18.0	13.0	1.913891e+09	
37	Soura Sarker	sourasarker1@gmail.com	18.0	13.0	1.670479e+09	
38	Rayhan Ahmed	mail.rayhanahmed@gmail.com	18.0	13.0	1.832339e+09	

		Name	Email	Floor Number	Group Number	Phone No.	\$
	39	Md.Robiul Alom	prothomrobi1@gmail.com	18.0	14.0	1.671069e+09	_
	40	Morshed Khan	morshed2767@gmail.com	18.0	14.0	1.521101e+09	
	41	Md. Jobaer	jobaer.fenibd@gmail.com	18.0	14.0	1.515205e+09	
	42	Shakil Sultan sunmoon	ssakilsultan74@gmail.com	18.0	15.0	1.918275e+09	
	43	Syed Abdulla noman	sa.noman75@gmail.com	18.0	15.0	1.733182e+09	
	44	Charls Dickens Tusha Falia	tushaFalia@gmail.com	18.0	15.0	1.919826e+09	
	45	NaN	NaN	NaN	NaN	NaN	
	46	NaN	NaN	NaN	NaN	NaN	
	47	NaN	NaN	NaN	NaN	NaN	
<pre>In [7]: #Write xlsx df.to_excel('new.xlsx', sheet_name ="stocks")</pre>							•
<pre>Write an individual DataFrame in Excel: In [8]: df_booking = pd.DataFrame({ 'Teckers':['Novel','Nadem','Niloy','Nabila'], 'Price':['285','195','80','50'], 'Place':['Dh','Br','Ch','Sy'], 'eps':['26.7','11.2','38.0','2.12']</pre>							
	})		, , , , , ,				