<pre>In [2]: In [3]: In [4]: Out[4]:</pre>	<pre>import numpy as np dict3 = {</pre>
	<pre>"name":['ss','dd','rr','cc','ff'] , "sub":[2,4,5,7,8] , "age":[23,45,65,25,87] , "weight":[45,56,76,100,459] } df = pd.DataFrame(dict3)</pre>
	name sub age weight 0 ss 2 23 45 1 dd 4 45 56
In [5]:	2 rr 5 65 76 3 cc 7 25 100 4 ff 8 87 459 df.to_csv('name.csv')
In [6]:	df.head(3) name sub age weight 0 ss 2 23 45
In [7]:	1 dd 4 45 56 2 rr 5 65 76 df.tail(3)
Out[7]:	name sub age weight 2 rr 5 65 76 3 cc 7 25 100 4 ff 8 87 459
In [8]: Out[8]:	df.describe() Sub Age Weight
	mean 5.200000 49.000000 147.200000 std 2.387467 27.239677 175.555404 min 2.000000 23.000000 45.000000 25% 4.000000 25.000000 56.000000
	25% 4.000000 25.000000 56.000000 50% 5.000000 45.000000 76.000000 75% 7.000000 65.000000 100.000000 max 8.000000 87.000000 459.000000
In [9]: In [10]: Out[10]:	<pre>dict3['sub'][1]=17 dict3['sub'][2] 5</pre>
In [11]:	<pre>dict3.index = ['5','ff','4','7','dd'] AttributeError</pre>
In [12]:	> 1 dict3.index = ['5','ff','4','7','dd'] AttributeError: 'dict' object has no attribute 'index' shivam = pd.read_csv('marks.csv') ###excel file ko notebook me bulna ho to ye fun ka use karte###
In [13]: Out[13]:	Shivam ## deko a gaya## Unnamed: 0
In [14]:	2
In [15]: Out[15]:	Shivam # deko index vale change ho gye hai op # Unnamed: 0
	ff 1 shubham 78 jabalpur 4 2 suraj 87 bhopal 7 3 shymul 67 shahdol
<pre>In [16]: Out[16]: In [17]:</pre>	shivam['city'][2] # coloum ke value ko bula rahe hai# 'bhopal' shivam ['city'][2] ='indore' # coloum ke vale ko change kar rahe hai index kke maded se #
	<pre><ipython-input-17-3548167da00b>:1: SettingWithCopyWarning: A value is trying to be set on a copy of a slice from a DataFrame See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy shivam ['city'][2] = 'indore' # coloum ke vale ko change kar rahe hai index kke maded se #</ipython-input-17-3548167da00b></pre>
In [18]: Out[18]:	Shivam # deko ho gaya channge # Unnamed: 0
In [19]:	4 2 suraj 87 indore 7 3 shymul 67 shahdol shivam.to_csv('shivam2_csv') # csv file wapas se save ho gaya hai #
In [20]: In [21]:	<pre>## chaliye shuru karte hai ## newdfff = pd.DataFrame(np.random.rand(334,5) , index = np.arange(334))## creation of dataframe ##</pre>
<pre>In [22]: Out[22]:</pre>	newdfff # calling new dataframe# 0
	1 0.337682 0.032490 0.578410 0.196446 0.459194 2 0.999539 0.553314 0.687496 0.716025 0.397865 3 0.092922 0.507143 0.230202 0.512950 0.298372 4 0.658756 0.129097 0.090615 0.637531 0.647706
	329 0.312270 0.918388 0.377515 0.631530 0.823016 330 0.264547 0.479814 0.647478 0.813936 0.374694 331 0.267763 0.443711 0.342104 0.796020 0.879930
	332 0.929596 0.795114 0.602521 0.842777 0.880249 333 0.221595 0.760004 0.909669 0.105035 0.689167 334 rows × 5 columns
<pre>In [23]: Out[23]: In [24]:</pre>	type(newdfff) # bata raha ki ye dataframe hai # pandas.core.frame.DataFrame newdfff.describe()
Out[24]:	count 334.000000 334.000000 334.000000 334.000000 334.000000 334.000000 mean 0.492469 0.476737 0.507156 0.482960 0.526656 std 0.284950 0.290641 0.289953 0.284042 0.273981
	min 0.000334 0.00021 0.002552 0.007948 0.002052 25% 0.246542 0.216117 0.260031 0.237201 0.321162 50% 0.497922 0.459141 0.522007 0.492353 0.536820
In [25]:	75% 0.730725 0.744300 0.761693 0.708372 0.734478 max 0.999539 0.998868 0.998139 0.997852 0.998499 newdfff.dtypes
Out[25]:	1 float64 2 float64 3 float64 4 float64 dtype: object
In [26]: Out[26]:	newdfff.head(10) 1 2 3 4 0 0.781981 0.160657 0.306927 0.597240 0.817418 1 0.337682 0.032490 0.578410 0.196446 0.459194
	2 0.999539 0.553314 0.687496 0.716025 0.397865 3 0.092922 0.507143 0.230202 0.512950 0.298372 4 0.658756 0.129097 0.090615 0.637531 0.647706
	50.2458530.7253980.8408090.0262380.89582760.7116010.5202870.5473940.6987210.61877670.7547260.7454860.3895230.5129430.87434280.8990620.5424020.5827150.9651210.500594
In [27]: In [28]:	9 0.699753 0.239546 0.955863 0.484494 0.592837 newdfff[0][0]='shivam patel' newdfff
In [28]: Out[28]:	0 1 2 3 4 0 shivam patel 0.160657 0.306927 0.597240 0.817418 1 0.337682 0.032490 0.578410 0.196446 0.459194
	2 0.999539 0.553314 0.687496 0.716025 0.397865 3 0.0929223 0.507143 0.230202 0.512950 0.298372 4 0.658756 0.129097 0.090615 0.637531 0.647706 329 0.31227 0.918388 0.377515 0.631530 0.823016
	329 0.31227 0.918388 0.377515 0.631530 0.823016 330 0.264547 0.479814 0.647478 0.813936 0.374694 331 0.267763 0.443711 0.342104 0.796020 0.879930 332 0.929596 0.795114 0.602521 0.842777 0.880249 333 0.221595 0.760004 0.909669 0.105035 0.689167
In [29]:	333
Out[29]:	
In [30]: Out[30]:	newdfff.index Int64Index([0, 1, 2, 3, 4, 5, 6, 7, 8, 9,
In [31]: Out[31]:	<pre>newdfff.columns RangeIndex(start=0, stop=5, step=1)</pre>
<pre>In [32]: Out[32]:</pre>	newdfff.to_numpy() # datatypes converting in to numpy arry# array([['shivam patel', 0.16065673709301487, 0.30692659284693935,
	[0.9995392699434426, 0.5533142668440891, 0.687495615125021, 0.7160247552726826, 0.39786514231437353],, [0.26776257289656713, 0.44371140024431166, 0.34210377351550014, 0.7960200907114762, 0.879930068879511], [0.9295957702894861, 0.7951142178287649, 0.602520754163023, 0.8427772992785751, 0.8802486322948865], [0.22159515130889895, 0.7600039998877186, 0.9096688636965189,
In [33]: Out[33]:	0.10503494605817776, 0.6891668779946094]], dtype=object) newdfff.T # transpose of matrix# 0 1 2 3 4 5 6 7 8 9 324 325 326 327 328 329 330 331 332 333
	0 shivam patel 0.337682 0.999539 0.0929223 0.658756 0.245853 0.711601 0.754726 0.899062 0.699753 0.0448656 0.354321 0.688913 0.320678 0.0959358 0.31227 0.264547 0.267763 0.929596 0.221595 1 0.160657 0.0324897 0.553314 0.507143 0.129097 0.725398 0.520287 0.745486 0.542402 0.239546 0.56699 0.353269 0.633718 0.478718 0.136939 0.918388 0.479814 0.443711 0.795114 0.760004 2 0.306927 0.57841 0.687496 0.230202 0.0906149 0.840809 0.547394 0.389523 0.582715 0.955863 0.0187626 0.0444389 0.613868 0.846737 0.12672 0.377515 0.647478 0.342104 0.602521 0.909669 3 0.817418 0.49646 0.716025 0.51295 0.637531 0.0262376 0.698721 0.512943 0.592837 0.0479
In [34]:	4 0.817418 0.459194 0.397865 0.298372 0.647706 0.895827 0.618776 0.874342 0.500594 0.592837 0.47963 0.694159 0.344469 0.0398603 0.911283 0.823016 0.374694 0.87993 0.880249 0.689167 5 rows × 334 columns newdfff.head()
Out[34]:	0 1 2 3 4 0 shivam patel 0.160657 0.306927 0.597240 0.817418 1 0.337682 0.032490 0.578410 0.196446 0.459194 0 0.005500 0.558014 0.007400 0.734005 0.007400
In [35]:	2 0.999539 0.553314 0.687496 0.716025 0.397865 3 0.0929223 0.507143 0.230202 0.512950 0.298372 4 0.658756 0.129097 0.090615 0.637531 0.647706 newdfff.sort_index(axis=1,ascending= False) # axis0 means row and axis 1 means coloum, and here we can using sort_index function#
Out[35]:	4 3 2 1 0 0 0.817418 0.597240 0.306927 0.160657 shivam patel 1 0.459194 0.196446 0.578410 0.032490 0.337682
	2 0.397865 0.716025 0.687496 0.553314 0.999539 3 0.298372 0.512950 0.230202 0.507143 0.0929223 4 0.647706 0.637531 0.090615 0.129097 0.658756
	329 0.823016 0.631530 0.377515 0.918388 0.31227 330 0.374694 0.813936 0.647478 0.479814 0.264547 331 0.879930 0.796020 0.342104 0.443711 0.267763 332 0.880249 0.842777 0.602521 0.795114 0.929596
	333 0.689167 0.105035 0.909669 0.760004 0.221595 334 rows × 5 columns
<pre>In [36]: Out[36]:</pre>	newdfff.sort_index(axis=0,ascending= False) # sort from 333 to 0# 1 2 3 4 33 0.221595 0.760004 0.909669 0.105035 0.689167 332 0.929596 0.795114 0.602521 0.842777 0.880249
	332 0.323390 0.795114 0.002321 0.042777 0.800249 331 0.267763 0.443711 0.342104 0.796020 0.879930 330 0.264547 0.479814 0.647478 0.813936 0.374694 329 0.31227 0.918388 0.377515 0.631530 0.823016
	4 0.658756 0.129097 0.090615 0.637531 0.647706 3 0.0929223 0.507143 0.230202 0.512950 0.298372 2 0.999539 0.553314 0.687496 0.716025 0.397865
	1 0.337682 0.032490 0.578410 0.196446 0.459194 0 shivam patel 0.160657 0.306927 0.597240 0.817418 334 rows × 5 columns
	<pre>type(newdfff[0]) pandas.core.series.Series newdfff</pre>
In [38]: Out[38]:	0 1 2 3 4 0 shivam patel 0.160657 0.306927 0.597240 0.817418 1 0.337682 0.032490 0.578410 0.196446 0.459194
	2 0.999539 0.553314 0.687496 0.716025 0.397865 3 0.0929223 0.507143 0.230202 0.512950 0.298372 4 0.658756 0.129097 0.090615 0.637531 0.647706
	3290.312270.9183880.3775150.6315300.8230163300.2645470.4798140.6474780.8139360.3746943310.2677630.4437110.3421040.7960200.879930
	332 0.929596 0.795114 0.602521 0.842777 0.880249 333 0.221595 0.760004 0.909669 0.105035 0.689167 334 rows × 5 columns
<pre>In [39]: In [40]: Out[40]:</pre>	
	0 shivam patel 0.160657 0.306927 0.597240 0.817418 1 0.337682 0.032490 0.578410 0.196446 0.459194 2 0.999539 0.553314 0.687496 0.716025 0.397865 3 0.0929223 0.507143 0.230202 0.512950 0.298372
	4 0.658756 0.129097 0.090615 0.637531 0.647706 329 0.31227 0.918388 0.377515 0.631530 0.823016 330 0.264547 0.479814 0.647478 0.813936 0.374694
	331 0.267763 0.443711 0.342104 0.796020 0.879930 332 0.929596 0.795114 0.602521 0.842777 0.880249 333 0.221595 0.760004 0.909669 0.105035 0.689167
In [41]:	$334 \text{ rows} \times 5 \text{ columns}$ $\text{newdf.loc[0,1] = 4}$ newdf
Out[42]:	0 1 2 3 4 0 shivam patel 4.00000 0.306927 0.597240 0.817418 1 0.337682 0.032490 0.578410 0.196446 0.459194 2 0.999539 0.553314 0.687496 0.716025 0.397865
	3 0.0929223 0.507143 0.230202 0.512950 0.298372 4 0.658756 0.129097 0.090615 0.637531 0.647706
	329 0.31227 0.918388 0.377515 0.631530 0.823016 330 0.264547 0.479814 0.647478 0.813936 0.374694 331 0.267763 0.443711 0.342104 0.796020 0.879930 332 0.929596 0.795114 0.602521 0.842777 0.880249
In [46]:	333 0.221595 0.760004 0.909669 0.105035 0.689167 334 rows × 5 columns newdf.loc[3,3] = 8
In [47]: Out[47]:	
	0 1 2 3 4 0 shivam patel 4.000000 0.306927 8.000000 0.817418
	0 1 2 3 4
	0 1 2 3 4 0 shivam patel 4.00000 0.306927 8.00000 0.817418 1 0.337682 0.032490 0.578410 0.196446 0.459194 2 0.999539 0.553314 0.687496 0.716025 0.397865 3 0.0929223 0.507143 0.230202 8.000000 0.298372
	0 1 2 3 4 0 shivam patel 4.00000 0.36927 8.00000 0.817418 1 0.337682 0.032490 0.578410 0.196446 0.459194 2 0.999539 0.55314 0.687496 0.716025 0.397865 3 0.092923 0.507143 0.230202 8.00000 0.298372 4 0.658756 0.129097 0.090615 0.637531 0.647706 329 0.31227 0.918388 0.377515 0.631530 0.823016 330 0.26457 0.479814 0.647478 0.813936 0.374694
In [48]: In [49]:	0 1 2 3 4 0 shivam patel 4 00000 0.36927 8.00000 0.817418 1 0.337682 0.032490 0.578410 0.196446 0.459194 2 0.999539 0.553314 0.887496 0.716025 0.397865 3 0.0929223 0.507143 0.239530 0.093932 0.647706 4 0.658756 0.129097 0.09615 0.63753 0.647706 **** *** *** *** *** 329 0.31227 0.918388 0.377515 0.631530 0.823016 331 0.267763 0.443711 0.342104 0.796020 0.879930 332 0.92956 0.79514 0.802521 0.842777 0.880249 334 rows × 5 columns ** <
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