- We Created a data frame using list
- Provided data
- Columns
- index added
- Modified the column
- Drop the column
- shape of the data frame
- How to save the data frame

How to read a data frame

- location
- file name
- extention
- I want to read data1
- location is not required because python file and data file both are at same location
- file name : data1
- extention: .csv

In [1]:
```
import pandas as pd
```

In [2]:
```
pd.read_csv('data1.csv')
```

Out[2]:

	Names	Age	City
0	Avinash	30	blr
1	Akash	35	chennai
2	Anvi	40	Mumbai

In [3]:
```
pd.read_excel('data2.xlsx')
```

Out[3]:

	Names	Age	City
0	Avinash	30	blr
1	Akash	35	chennai
2	Anvi	40	Mumbai

task

- Download visadataset and bank
- Save in a local folder
- Read here
- First visa data set
- Second bank

In [4]:
```
visa_df=pd.read_csv(r"C:\Users\omkar\OneDrive\Documents\Data science\Naresh IT\N
visa_df
```

Out[4]:

	case_id	continent	education_of_employee	has_job_experience	requires_job_t
0	EZYV01	Asia	High School	N	
1	EZYV02	Asia	Master's	Y	
2	EZYV03	Asia	Bachelor's	N	
3	EZYV04	Asia	Bachelor's	N	
4	EZYV05	Africa	Master's	Y	
...	...	...	...	...	
25475	EZYV25476	Asia	Bachelor's	Y	
25476	EZYV25477	Asia	High School	Y	
25477	EZYV25478	Asia	Master's	Y	
25478	EZYV25479	Asia	Master's	Y	
25479	EZYV25480	Asia	Bachelor's	Y	

25480 rows × 12 columns

In [6]:
```
bank_df=pd.read_csv(r"C:\Users\omkar\OneDrive\Documents\Data science\Naresh IT\N
                    sep=';')
bank_df
```

Out[6]:

	age	job	marital	education	default	balance	housing	loan	contact
0	30	unemployed	married	primary	no	1787	no	no	cellular
1	33	services	married	secondary	no	4789	yes	yes	cellular
2	35	management	single	tertiary	no	1350	yes	no	cellular
3	30	management	married	tertiary	no	1476	yes	yes	unknown
4	59	blue-collar	married	secondary	no	0	yes	no	unknown
...	...	...	...	...	...	...	...	...	...
4516	33	services	married	secondary	no	-333	yes	no	cellular
4517	57	self-employed	married	tertiary	yes	-3313	yes	yes	unknown
4518	57	technician	married	secondary	no	295	no	no	cellular
4519	28	blue-collar	married	secondary	no	1137	no	no	cellular
4520	44	entrepreneur	single	tertiary	no	1136	yes	yes	cellular

4521 rows × 17 columns

Create data frame using dictionary

In [7]:
```
name=['Avinash','Aakash','Aadhya']
age=[25,30,35]
pd.DataFrame(zip(name,age),columns=['Names','Ages'])
```

Out[7]:

	Names	Ages
0	Avinash	25
1	Aakash	30
2	Aadhya	35

In [8]:
```
dict1={'Names':['Avinash','Aakash','Aadhya'],
       'Ages':[25,30,35]}
dict1
```

Out[8]:
```
{'Names': ['Avinash', 'Aakash', 'Aadhya'], 'Ages': [25, 30, 35]}
```

In [9]:
```
pd.DataFrame(dict1)
# Keys becomes columns
# Values becomes rows
# No need to provide columns names separately
```

Out[9]:

	Names	Ages
0	Avinash	25
1	Aakash	30
2	Aadhya	35

In [13]:
```
dict2={'Names':'Avinash',
       'Ages':25,
       'City':'Hyd'}
pd.DataFrame(dict2,index=[1,2,3])
```

Out[13]:

	Names	Ages	City
1	Avinash	25	Hyd
2	Avinash	25	Hyd
3	Avinash	25	Hyd

In [ ]:
```

```