In [1]:
```
# reading the csv file
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
```

In [4]:
```
path=r"C:\Users\rakes\naresh it data  science (adi)\Data files\bank - bank.csv
pd.read_csv(path)
```

Out[4]:

	age	job	marital	education	default	balance	housing	loan	contact	day	mor
0	30	unemployed	married	primary	no	1787	no	no	cellular	19	c
1	33	services	married	secondary	no	4789	yes	yes	cellular	11	m
2	35	management	single	tertiary	no	1350	yes	no	cellular	16	a
3	30	management	married	tertiary	no	1476	yes	yes	unknown	3	j
4	59	blue-collar	married	secondary	no	0	yes	no	unknown	5	m
...	...	...	...	...	...	...	...	...	...	...	
4516	33	services	married	secondary	no	-333	yes	no	cellular	30	
4517	57	self-employed	married	tertiary	yes	-3313	yes	yes	unknown	9	m
4518	57	technician	married	secondary	no	295	no	no	cellular	19	a
4519	28	blue-collar	married	secondary	no	1137	no	no	cellular	6	f
4520	44	entrepreneur	single	tertiary	no	1136	yes	yes	cellular	3	a

4521 rows × 17 columns

In [5]:
```
pd.read_csv(path,sep=";")
```

Out[5]:

	age,job,marital,education,default,balance,housing,loan,contact,day,month,duration,campaign,pda
0	30,unemployed,married,p
1	33,services,married,sec
2	35,management,single,
3	30,management,married
4	59,blue-collar,married,
...	
4516	33,services,married,sec
4517	57,self-employed,mar
4518	57,technician,married,s
4519	28,blue-collar,married,s
4520	44,entrepreneur,singl

4521 rows × 1 columns

In [6]:
```
# create dataframes using list
name=['ramesh','suresh','satish']
age=[30,35,40]
name,age
```

Out[6]:
```
(['ramesh', 'suresh', 'satish'], [30, 35, 40])
```

In [7]:
```
pd.DataFrame(zip(name,age))
```

Out[7]:

	0	1
0	ramesh	30
1	suresh	35
2	satish	40

In [19]:
```
# provide coloumns
data=zip(name,age)
cols=['name','age']
d1=pd.DataFrame(data,columns=cols)
d1
```

Out[19]:

	name	age
0	ramesh	30
1	suresh	35
2	satish	40

In [27]:
```
name=['ramesh','suresh','satish']
age=[30,35,40]
data=zip(name,age)
cols=['Name','Age']
index=['A','B','C']
df=pd.DataFrame(data,columns=cols,index=ind)
df
```

Out[27]:

	Name	Age
a	ramesh	30
b	suresh	35
c	satish	40

In [28]:
```
#add new column
city_names=["hyd","blr",'chennai']
df["city"]=city_names
df
```

Out[28]:

	Name	Age	city
a	ramesh	30	hyd
b	suresh	35	blr
c	satish	40	chennai

In [29]:
```
# update the existing column
df['Name']=['swamy','asif','sathwik']
df
```

Out[29]:

	Name	Age	city
a	swamy	30	hyd
b	asif	35	blr
c	sathwik	40	chennai

In [30]:
```
# DROP THE COLUMN
df.drop('city',axis=1,inplace=True)
df
```

Out[30]:

	Name	Age
a	swamy	30
b	asif	35
c	sathwik	40

In [31]:
```
# drop rows
df.drop('c',axis=0,inplace=True)
df
```

Out[31]:

	Name	Age
a	swamy	30
b	asif	35

In [32]:
```
#save the data frame
df.to_csv('output1.csv')
```

In [33]:
```
pd.read_csv('output1.csv')
```

Out[33]:

	Unnamed: 0	Name	Age
0	a	swamy	30
1	b	asif	35

In [36]:
```
# remove the index
# TO avoid problem give index=False
df.to_csv("output1.csv",index=False)
```

In [37]:
```
pd.read_csv('output1.csv')
```

Out[37]:

	Name	Age
0	swamy	30
1	asif	35

In [44]:
```
# create dataframes using dicitionary
d1={'name':['ramesh','suresh','satish'],'age':[30,35,40]}
d2=pd.DataFrame(d1)
```

In [46]:
```
d2['name2']=['asif','adi','piyush']
d2
```

Out[46]:

	name	age	city	name2
0	ramesh	30	asif	asif
1	suresh	35	adi	adi
2	satish	40	piyush	piyush

In [ ]:

In [ ]: