Assignment 4

Question 1:

In [2]:
```
import pandas as pd
print(pd.__version__)
```

```
1.0.5
```

Question 2:

In [3]:
```
phone_dict = {
    "shama":4567345232,
    "varsha":5434654756,
    "charu":6578934343,
    "kvya":7895463212,
    "Sahana":8950546989
}
print(phone_dict)
print(type(phone_dict))
details = pd.Series(phone_dict)
details
```

```
{'shama': 4567345232, 'varsha': 5434654756, 'charu': 6578934343, 'kvya': 789546
3212, 'Sahana': 8950546989}
<class 'dict'>
```

Out[3]:
```
shama     4567345232
varsha    5434654756
charu     6578934343
kvya      7895463212
Sahana    8950546989
dtype: int64
```

In [4]:
```
import pandas as pd
import numpy as np
data = np.array(['a', 'b', 'c', 'd', 'e'])
s = pd.Series(data, index =[1000, 1001, 1002, 1003, 1004])
print(s)
```

```
1000    a
1001    b
1002    c
1003    d
1004    e
dtype: object
```

Question 3:

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

df = pd.DataFrame({'Roll Number': ['20CSE29', '20CSE49', '20CSE36', '20CSE44'],
                   'Name': ['shama', 'varsha', 'charu', 'kvya'],
                   'Marks In Percentage': [97, 90, 70, 82],
                   'Grade': ['A', 'A', 'C', 'B'],
                   'Subject': ['Physics', 'Physics', 'Physics', 'Physics']})
df['index'] = df.index
df
```

Out[6]:

	Roll Number	Name	Marks In Percentage	Grade	Subject	index
0	20CSE29	shama	97	A	Physics	0
1	20CSE49	varsha	90	A	Physics	1
2	20CSE36	charu	70	C	Physics	2
3	20CSE44	kvya	82	B	Physics	3

Question 4:

In [8]:
```
import seaborn as sb
sb.get_dataset_names()
df=sb.load_dataset('mpg')
print(df.head())
```

```
C:\Users\Admin\anaconda3\lib\site-packages\seaborn\utils.py:384: GuessedAtParse
rWarning: No parser was explicitly specified, so I'm using the best available H
TML parser for this system ("lxml"). This usually isn't a problem, but if you r
un this code on another system, or in a different virtual environment, it may u
se a different parser and behave differently.

The code that caused this warning is on line 384 of the file C:\Users\Admin\ana
conda3\lib\site-packages\seaborn\utils.py. To get rid of this warning, pass the
additional argument 'features="lxml"' to the BeautifulSoup constructor.

  gh_list = BeautifulSoup(http)

    mpg  cylinders  displacement  horsepower  weight  acceleration  \
0  18.0          8         307.0       130.0    3504          12.0
1  15.0          8         350.0       165.0    3693          11.5
2  18.0          8         318.0       150.0    3436          11.0
3  16.0          8         304.0       150.0    3433          12.0
4  17.0          8         302.0       140.0    3449          10.5

   model_year origin                       name
0          70    usa  chevrolet chevelle malibu
1          70    usa          buick skylark 320
2          70    usa         plymouth satellite
3          70    usa              amc rebel sst
4          70    usa                ford torino
```

Question 5:

In [11]:
```
import seaborn as sb
df=sb.load_dataset('mpg')
print(df['origin'].unique())
```

```
['usa' 'japan' 'europe']
```

Question 6:

In [12]:
```
df[(df['origin']=='usa')]
```

Out[12]:

	mpg	cylinders	displacement	horsepower	weight	acceleration	model_year	origin	name
0	18.0	8	307.0	130.0	3504	12.0	70	usa	chevrolet chevelle malibu
1	15.0	8	350.0	165.0	3693	11.5	70	usa	buick skylark 320
2	18.0	8	318.0	150.0	3436	11.0	70	usa	plymouth satellite
3	16.0	8	304.0	150.0	3433	12.0	70	usa	amc rebel sst
4	17.0	8	302.0	140.0	3449	10.5	70	usa	ford torino
...	...	...	...	...	...	...	...	...	...
392	27.0	4	151.0	90.0	2950	17.3	82	usa	chevrolet camaro
393	27.0	4	140.0	86.0	2790	15.6	82	usa	ford mustang gl
395	32.0	4	135.0	84.0	2295	11.6	82	usa	dodge rampage
396	28.0	4	120.0	79.0	2625	18.6	82	usa	ford ranger
397	31.0	4	119.0	82.0	2720	19.4	82	usa	chevy s-10

249 rows × 9 columns