```
In [6]: #Question 1:How to import pandas and check the version?
         import pandas as pd
         print(pd.__version__)
         0.25.1
 In [7]: #Question 2:How to create a series from a numpy array?
         import pandas as pd
         import numpy as np
         data = np.array(['a', 'e', 'i', 'o', 'u'])
         s = pd.Series(data)
         print(s)
         0
              а
         1
              e
         2
              i
         3
              0
         4
         dtype: object
In [21]: #Question 3: How to convert the index of a series into a column of a dataframe?
         population_dict={
             "TUMKUR":989898,
              "BANGALORE":1666666,
              "MYSORE":4444444,
              "HUBLI":77777777,
         }
         print(population_dict)
         print(type(population_dict))
         population=pd.Series(population dict)
         population
         type(population)
         pd.DataFrame(population)
         {'TUMKUR': 989898, 'BANGALORE': 1666666, 'MYSORE': 4444444, 'HUBLI': 77777777}
         <class 'dict'>
Out[21]:
                            0
             TUMKUR
                       989898
          BANGALORE
                      1666666
             MYSORE 4444444
               HUBLI 77777777
```

```
In [8]: # Question 4: Write the code to list all the datasets available in seaborn libral
import seaborn as sbn
sbn.get_dataset_names()
```

C:\Users\ADMIN\Anaconda3\lib\site-packages\seaborn\utils.py:376: UserWarning: N o parser was explicitly specified, so I'm using the best available HTML parser for this system ("lxml"). This usually isn't a problem, but if you run this cod e on another system, or in a different virtual environment, it may use a different parser and behave differently.

The code that caused this warning is on line 376 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)
```

```
Out[8]: ['anagrams',
          'anscombe',
          'attention',
          'brain_networks',
          'car_crashes',
          'diamonds',
          'dots',
          'exercise',
          'flights',
          'fmri',
          'gammas',
          'geyser',
          'iris',
          'mpg',
          'penguins',
          'planets',
          'tips',
          'titanic']
```

In [9]: data=sbn.load\_dataset('mpg')
 data

Out[9]:

	mpg	cylinders	displacement	horsepower	weight	acceleration	model_year	origin	name
0	18.0	8	307.0	130.0	3504	12.0	70	usa	chevrole chevelle malibu
1	15.0	8	350.0	165.0	3693	11.5	70	usa	buicł skylarł 32(
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	amo rebel ss
4	17.0	8	302.0	140.0	3449	10.5	70	usa	forc torinc
393	27.0	4	140.0	86.0	2790	15.6	82	usa	forc mustanç g
394	44.0	4	97.0	52.0	2130	24.6	82	europe	vw pickur
395	32.0	4	135.0	84.0	2295	11.6	82	usa	dodg€ rampag€
396	28.0	4	120.0	79.0	2625	18.6	82	usa	forc range
397	31.0	4	119.0	82.0	2720	19.4	82	usa	chevy s 1(

398 rows × 9 columns

In [10]: # Question 5:Which country origin cars are a part of this dataset?
data['origin'].unique()

Out[10]: array(['usa', 'japan', 'europe'], dtype=object)

In [11]: # Questions 6: Extract the part of the dataframe which contains cars belonging to
data[data['origin']=='usa']

Out[11]:

	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

In [ ]: