```
#Question-1: How to import pandas and check the version.
import pandas as pd
print(pd.__version__)
```

```
    1.1.4
```

```
#Question-2: How to create a series from a numpy array.
import numpy as np
import pandas as pd
data=np.array(['jammukashmir','usa','singapore','korea','switzerland'])
series=pd.Series(data)
print(series)
```

```
    0     jammukashmir
    1             usa
    2        singapore
    3            korea
    4      switzerland
    dtype: object
```

```
#Question-3: How to convert the index of a series into a column of a dataframe.
series=pd.Series(data,index=['a','b','c','d','e'])
print(series)
print()
df=series.to_frame().reset_index()
df.columns=["options","Names"]
df
```

```
    a     jammukashmir
    b             usa
    c        singapore
    d            korea
    e      switzerland
    dtype: object
```

| | options | Names |
|---|---|---|
| **0** | a | jammukashmir |
| **1** | b | usa |
| **2** | c | singapore |
| **3** | d | korea |
| **4** | e | switzerland |

```
#Question-4: Write the code to list all the datasets available in seaborn libraray.
import seaborn as sns
mpg=sns.load_dataset('mpg')
print(mpg)
```

```
        mpg  cylinders  ...  origin                        name
0      18.0          8  ...     usa  chevrolet chevelle malibu
1      15.0          8  ...     usa          buick skylark 320
2      18.0          8  ...     usa         plymouth satellite
3      16.0          8  ...     usa              amc rebel sst
4      17.0          8  ...     usa                ford torino
..      ...        ...  ...     ...                        ...
393    27.0          4  ...     usa            ford mustang gl
394    44.0          4  ...  europe                  vw pickup
395    32.0          4  ...     usa              dodge rampage
396    28.0          4  ...     usa                ford ranger
397    31.0          4  ...     usa                 chevy s-10

[398 rows x 9 columns]
```

```
#Question-5: Which country origin cars are a part of this dataset.
import seaborn as sns
import pandas as pd
mpg=sns.load_dataset('mpg')
df=pd.DataFrame(mpg)
df.origin.unique()
```

```
    array(['usa', 'japan', 'europe'], dtype=object)
```

```
#Question-6: Extract the part of the dataframe which contains cars belonging to 'usa'.
import seaborn as sns
import pandas as pd
mpg=sns.load_dataset('mpg')
df=pd.DataFrame(mpg)
df[df['origin'].str.contains("usa")]
```

|  | mpg | cylinders | displacement | horsepower | weight | acceleration | model_year | origin |
|---|---|---|---|---|---|---|---|---|
| 0 | 18.0 | 8 | 307.0 | 130.0 | 3504 | 12.0 | 70 | usa |
| 1 | 15.0 | 8 | 350.0 | 165.0 | 3693 | 11.5 | 70 | usa |
| 2 | 18.0 | 8 | 318.0 | 150.0 | 3436 | 11.0 | 70 | usa |
| 3 | 16.0 | 8 | 304.0 | 150.0 | 3433 | 12.0 | 70 | usa |
| 4 | 17.0 | 8 | 302.0 | 140.0 | 3449 | 10.5 | 70 | usa |
| ... | ... | ... | ... | ... | ... | ... | ... | .. |
| 392 | 27.0 | 4 | 151.0 | 90.0 | 2950 | 17.3 | 82 | usa |
| 393 | 27.0 | 4 | 140.0 | 86.0 | 2790 | 15.6 | 82 | usa |