Task 13

Exercise 1: Series object

Exercise 1a: Series object with a list of integers

Create a pandas Series object containing a list of integers.

```
In [ ]:  import pandas as pd
         import numpy as np
         import random

         obj=pd.Series([random.randint(1,10) for i in range(10)])
         obj
```

```
Out[ ]:  0    7
         1    6
         2    6
         3    8
         4    7
         5    2
         6    3
         7    6
         8    1
         9    4
         dtype: int64
```

Exercise 1b: Series object with a list of strings

Create a pandas Series object containing a list of strings.

```
In [ ]:  obj=pd.Series(['a','b','c','d','e','f','g','h','i','j'])
         obj
```

```
Out[ ]:  0    a
         1    b
         2    c
         3    d
         4    e
         5    f
         6    g
         7    h
         8    i
         9    j
         dtype: object
```

Exercise 2: DataFrame object

Exercise 2a: DataFrame object containing a dictionary of lists

Create a pandas DataFrame object containing a dictionary of lists.

```
In [ ]:   df=pd.DataFrame({'list1':[random.randint(1,10) for i in range(10)],'list2':[random.
          df
```

Out[ ]:

	list1	list2
0	9	8
1	1	7
2	4	1
3	10	6
4	2	2
5	7	4
6	1	5
7	3	7
8	3	5
9	7	10

Exercise 2b: DataFrame object containing a numpy array

Create a pandas DataFrame object containing a numpy array.

```
In [ ]:   df=pd.DataFrame(np.arange(10))
          df
```

Out[ ]:

	0
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9