C27 - Inclass Assignment (11)

author & date

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Q1. Update author name and date.

Creating an array

```
In [50]: # Run this Line first
import numpy as np
```

Q2. Create the one dimensional Numpy array rating that stores four items [4.5, 3.2, 4.9, 2.4].

```
In [51]: rating = np.array([4.5, 3.2, 4.9, 2.4])
```

Q3. Create the two dimensional Numpy array rating_price that stores two lists - [4.5, 3.2, 4.9, 2.4] and [900, 800, 700, 600].

```
In [52]: rating_Price = np.array([[4.5, 3.2, 4.9, 2.4],[900, 800, 700, 600]])
```

Dimension and size check

Q4. A line of code to check the number of dimension of rating

```
In [53]: rating.ndim
Out[53]: 1
```

Q5. A line of code to check the number of items in rating_price

```
In [54]: rating_Price.size
```

Out[54]: 8

4/20/22, 1:39 PM C27_inclass

Easy creation

Q6. A line of code to create a Numpy matrix (2D array) of all 0s that is 3x5

Q7. A line of code to create an one dimension Numpy array with elements ranging from 10 to 100 as per the interval 3

Sorting

```
In [57]: # Run this line first to create a variable `score`
score = np.array([9.3, 7.2, 3.8, 1.2, 8.5, 4.3, 5.9, 2.0])
```

Q8. A line of code to create a new variable sorted_score that contains a result of sorting score variable in ascending order

```
In [58]: sorted_score = np.sort(score)
```

Indexing

Q9. A line of code to select the first four items in <code>sorted_score</code>. The output should be a list of [1.2, 2., 3.8, 4.3].

```
In [59]: sorted_score[0: 4]
Out[59]: array([1.2, 2. , 3.8, 4.3])
In [60]: # Run this line first for Q10
    rankings = np.array([[1, 2, 3, 4], [5, 6, 7, 8], [9, 10, 11, 12]])
```

Q10. A line of code to select the value 4 only from rankings variable. The output should be 4.

In [62]:	rankings[0][3]
Out[62]:	4
In []:	