Jim Crivello's Module 4 Project - Part 1

Task1 - Series

```
In [1]:
         import pandas as pd
         grades = pd.Series([95, 86, 74, 88, 92, 98, 93])
In [2]:
In [3]:
         grades[0]
Out[3]:
In [4]:
         grades.count()
Out[4]:
In [5]:
         grades.mean()
         89.42857142857143
Out[5]:
In [6]:
         grades.min()
Out[6]:
In [7]:
         grades.max()
         98
Out[7]:
In [8]:
         grades.std()
         7.913219801006895
Out[8]:
In [9]:
         grades.describe()
         count
                   7.000000
Out[9]:
         mean
                  89.428571
         std
                   7.913220
                  74.000000
         min
         25%
                  87.000000
         50%
                  92.000000
         75%
                  94.000000
         max
                  98.000000
         dtype: float64
```

Task 2 - Series from Dictionary

```
In [10]: grades = pd.Series([87, 100, 94], index=['Wally', 'Eva', 'Sam'])
In [11]: grades
```

```
Eva
                  100
                   94
         Sam
         dtype: int64
In [12]: grades = pd.Series({'Wally': 87, 'Eva': 100, 'Sam': 94})
In [13]:
         grades
         Wally
                   87
Out[13]:
         Eva
                   100
         Sam
                   94
         dtype: int64
         print("Eva's grade")
In [14]:
         Eva's grade
         grades['Eva']
In [15]:
         100
Out[15]:
In [16]:
         grades.Wally
Out[16]:
In [17]:
         grades.dtype
         dtype('int64')
Out[17]:
          grades.values
In [18]:
         array([ 87, 100, 94], dtype=int64)
Out[18]:
         Self Check
In [19]:
         import numpy as np
In [20]:
          import pandas as pd
         temps = np.random.randint(60, 101, 6)
In [21]:
In [22]:
         temperatures = pd.Series(temps)
In [23]:
         temperatures
               94
Out[23]:
         1
              100
               70
         2
               80
               78
         4
               83
         dtype: int32
In [24]: temperatures.min()
```

Wally

Out[11]:

87

```
70
Out[24]:
         temperatures.max()
In [25]:
         100
Out[25]:
In [26]:
         temperatures.mean()
         84.1666666666667
Out[26]:
In [27]:
         temperatures.describe()
         count
                     6.000000
Out[27]:
         mean
                    84.166667
         std
                   10.998485
                   70.000000
         min
         25%
                   78.500000
         50%
                   81.500000
         75%
                   91.250000
         max
                   100.000000
         dtype: float64
```