

M07 - In Class Participation

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```
In [1]: import numpy as np
import pandas as pd
```

Exercise 7.1

```
In [2]: class Example:
        """
        Docstring goes here!
        This class concatenates a static number with a user-defined string
        """

        attr = 3; #static attribute

        def __init__(self, arg):
            self.arg=arg

        def method(self):
            self.adtn = str(self.attr) + ' ' + self.arg
            print(self.adtn)
```

Exercise 7.2

```
In [3]: usecase = Example("hi")
print(usecase.attr)
print(usecase.arg)
usecase.method()
```

```
3
hi
3 hi
```

Exercise 7.3

```
In [4]: class Student:

        #grades = pd.Series(index=self.assignment)

        def __init__(self, name, userid):
            self.name=name
            self.userid=userid
            self.grades=pd.Series(dtype=float)

        def add_grade(self, assignment, grade):
            self.grades.loc[assignment] = grade
```

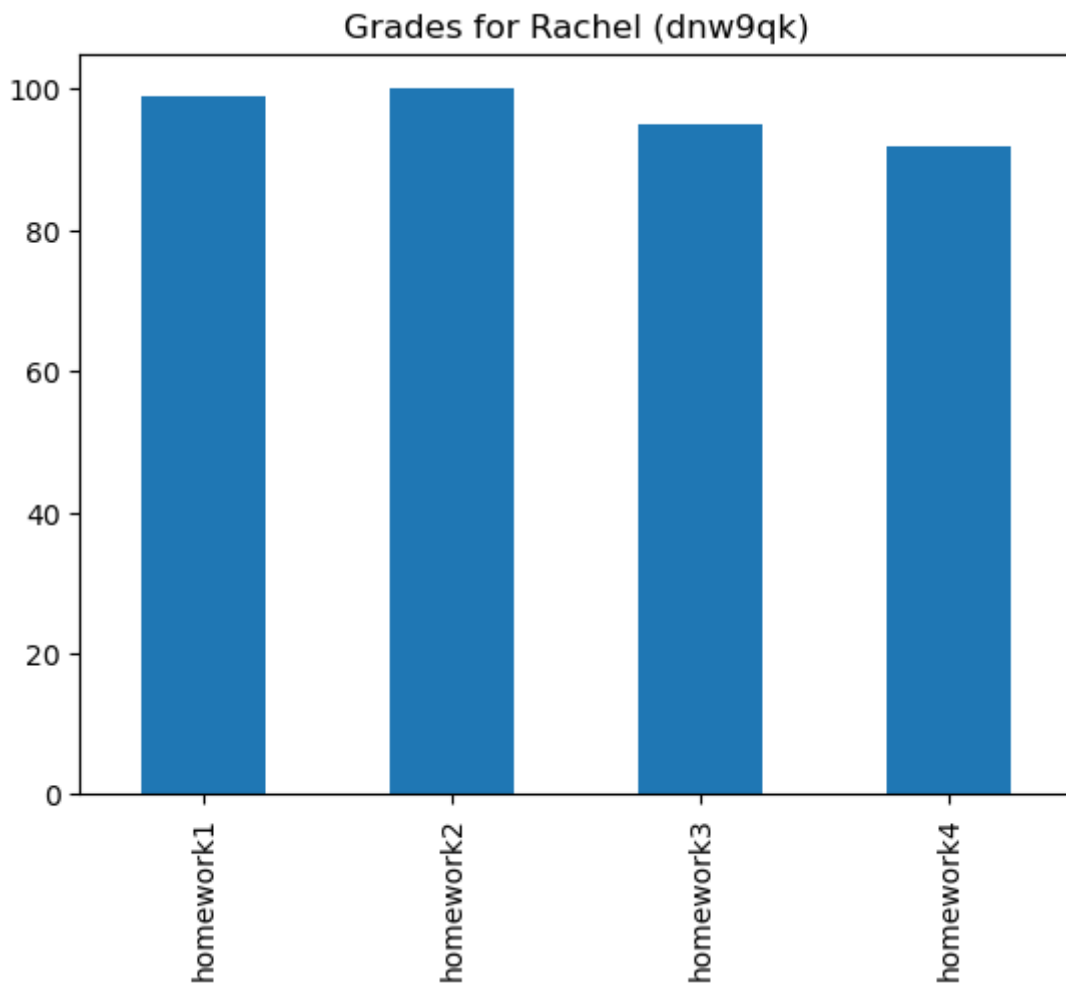
```
def plotting(self):  
    self.grades.plot.bar(title=f"Grades for {self.name} ({self.userid})")
```

```
In [5]: stu = Student("Rachel", "dnw9qk")  
stu.add_grade("homework1", 99)  
stu.add_grade("homework2", 100)  
stu.add_grade("homework3", 95)  
stu.add_grade("homework4", 92)
```

```
In [6]: stu.grades
```

```
Out[6]: homework1    99  
homework2    100  
homework3    95  
homework4    92  
dtype: int64
```

```
In [7]: stu.plotting()
```



```
In [ ]:
```