Assignment 3

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Replit: [Assignment 3 - Replit]

Add three methods to the Student class from Chapter 9 that compare two Student objects. One method should test for equality. A second method should test for less than. The third method should test for greater than or equal to. In each case, the method returns the result of the comparison of the two students' names. Include a main function that tests all of the comparison operators, then place several Student objects into a list and shuffle it. Then run the sort method with this list and display all the students' information.

1. Equality Method (2%).
2. Less Than Method (2%).
3. Greater Than Method (2%).
4. Main Function (4%).

Python Code

```
class Student:
    def __init__(self, name, number):
        self.name = name
        self.number = number
#Equality Method (2%)
    def __eq__(self, equality):
        return self.name == equality.name
#Less Than Method (2%)
    def __lt__(self, less):
        return self.name < less.name
#Greater Than Method (2%)
    def __ge__(self, greater):
        return self.name >= greater.name
#Results
    def display(self):
        print(f"Name: {self.name}\nScore: {self.number}\n")

#Main Function (4%)
def main():
    students = [
        Student("Santiago Cruz", 4.0),
        Student("Mark Johnson", 3.3),
    ]

    students.sort()

    for student in students:
        student.display()

if __name__ == "__main__":
    main()
```

As a result of running the code in Replit, we get the following result: