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"""
Implement a function called sort_students that takes a
list of student objects as input and sorts the
list based on their CGPA (Cumulative Grade Point
Average) in descending order. Each student object
has the following attributes: name (string), roll_number
(string), and cgpa (float). Test the function
with different input lists of students.
"""

class Student:

    def __init__(self, name, roll_number, cgpa):
        self.name = name
        self.roll_number = roll_number
        self.cgpa = cgpa


def sort_students(student_list):
    # Sort the list of students in descending order of
CGPA
    sorted_students = sorted(student_list,
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                              key=lambda      student: student.cgpa,
                              reverse=True)
    # Syntax - lambda arg:exp
    return sorted_students


# Example usage:
students = [
    Student("Hari", "A123", 7.8),
    Student("Srikanth", "A124", 8.9),
    Student("Saumya", "A125", 9.1),
    Student("Mahidhar", "A126", 9.9),
]

sorted_students = sort_students(students)

# Print the sorted list of students
for student in sorted_students:
    print("Name: {}, Roll Number: {}, CGPA: {}".format(student.name,
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student.roll_number,

student.cgpa))
```