Challenge 2 Q

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):
    sorted_students = sorted(student_list,
key=lambda student: student.cgpa,
reverse=True)
    return sorted_students

# Example usage:
if __name__ == "__main__":
    students = [
        Student("Archana", "A101", 3.8),
        Student("Akshu", "B102", 3.5),
        Student("Nithi", "C103", 4.0),
        Student("Aruna", "D104", 3.9),
    ]

    sorted_students = sort_students(students)

    for student in sorted_students:
        print(f"Name: {student.name}, Roll
Number: {student.roll_number}, CGPA:
{student.cgpa}")
```

Output

```
Name: Nithi, Roll Number: C103, CGPA: 4.0
Name: Aruna, Roll Number: D104, CGPA: 3.9
Name: Archana, Roll Number: A101, CGPA: 3.8
Name: Akshu, Roll Number: B102, CGPA: 3.5
```