2)'''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,

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,

student.roll\_number,

student.cgpa))