"""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(sting),and cgpa(float).Test the function with different input List 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):

# print 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("Saranya", "A123", 7.8),

Student("Tharani", "A124", 8.9),

Student("pooja", "A125", 9.1),

Student("luvika", "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))