```
Import java.util.ArrayList;
Import java.util.Collections;
Import java.util.Comparator;
Import java.util.List;
// Define a Student class to represent a student
Class Student {
  String name;
  String rollNumber;
  Double cgpa;
  Public Student(String name, String rollNumber, double cgpa) {
    This.name = name;
    This.rollNumber = rollNumber;
    This.cgpa = cgpa;
  }
```

```
}
Public class Main {
  // Comparator to compare students based on CGPA in descending order
  Static class CGPAComparator implements Comparator<Student> {
    @Override
    Public int compare(Student student1, Student student2) {
      // Sort in descending order of CGPA
      Return Double.compare(student2.cgpa, student1.cgpa);
    }
  }
  // Function to sort a list of student objects based on CGPA in descending order
  Static void sortStudents(List<Student> students) {
    // Use the CGPAComparator to sort the list
```

```
Collections.sort(students, new CGPAComparator());
}
Public static void main(String[] args) {
  // Create a list of student objects
  List<Student> students = new ArrayList<>();
  Students.add(new Student("Alice", "A123", 3.8));
  Students.add(new Student("Bob", "B456", 3.5));
  Students.add(new Student("Charlie", "C789", 3.9));
  Students.add(new Student("David", "D101", 3.2));
  Students.add(new Student("Eve", "E202", 4.0));
  // Sort the list of students based on CGPA
  sortStudents(students);
```

```
// Print the sorted list

System.out.println("Sorted List of Students by CGPA (Descending Order):");

For (Student student : students) {

System.out.println("Name: " + student.name + ", Roll Number: " + student.rollNumber + ", CGPA: " + student.cgpa);

}

}
```