package Collections.Sets;  
  
import java.util.TreeSet;  
  
class EmployeePQTreeSet implements Comparable<EmployeePQTreeSet> {  
  
 Integer id;  
 String name;  
  
 public EmployeePQTreeSet(Integer id, String name) {  
 this.id = id;  
 this.name = name;  
 }  
  
 public String toString() {  
 return this.id + " " + this.name;  
  
 }  
  
 public int compareTo(EmployeePQTreeSet other){  
 return Integer.*compare*(this.id,other.id);  
// return this.id.compareTo(other.id)  
// return this.id - other.id;  
 }  
}  
public class TreeSetUsingComparableDemo {  
 public static void main(String[] args) {  
  
  
 TreeSet<EmployeePQTreeSet> treeSetList1=new TreeSet<EmployeePQTreeSet>();  
  
 EmployeePQTreeSet employee1 = new EmployeePQTreeSet(15019, "Patanjali");  
 EmployeePQTreeSet employee2 = new EmployeePQTreeSet(13198, "Geetanjali");  
 EmployeePQTreeSet employee3 = new EmployeePQTreeSet(12112, "Anjali");  
  
 treeSetList1.add(employee1);  
 treeSetList1.add(employee2);  
 treeSetList1.add(employee3);  
 System.*out*.println(treeSetList1);  
  
  
}  
}

C:\Users\Roystan\.jdks\openjdk-21.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2023.3.3\lib\idea\_rt.jar=61113:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2023.3.3\bin" -Dfile.encoding=UTF-8 -Dsun.stdout.encoding=UTF-8 -Dsun.stderr.encoding=UTF-8 -classpath C:\Users\Roystan\IdeaProjects\JavaWorkspace\out\production\JavaWorkspace Collections.Sets.TreeSetUsingComparableDemo

[12112 Anjali, 13198 Geetanjali, 15019 Patanjali]

package Collections.Sets;  
  
import java.util.Comparator;  
import java.util.TreeSet;  
  
class EmployeePQSet {  
  
 Integer id;  
 String name;  
  
 public EmployeePQSet(Integer id, String name) {  
 this.id = id;  
 this.name = name;  
 }  
  
 public String toString() {  
 return this.id + " " + this.name;  
  
 }  
}  
  
class SortByIdPQSet implements Comparator<EmployeePQSet> {  
 // Used for sorting in ascending order of ID  
 public int compare(EmployeePQSet a,EmployeePQSet b) {  
 return Integer.*compare*(a.id,b.id);  
// return this.id.compareTo(other.id)  
// return this.id - other.id;  
  
 //String comparision  
// return a.name.compareToIgnoreCase(b.name);  
 }  
}  
  
public class TreeSetUsingComparatorDemo {  
 public static void main(String[] args) {  
 TreeSet<EmployeePQSet> treeSetEmployees = new TreeSet<EmployeePQSet>(new SortByIdPQSet());  
 EmployeePQSet employee1 = new EmployeePQSet(15019, "Patanjali");  
 EmployeePQSet employee2 = new EmployeePQSet(13198, "Geetanjali");  
 EmployeePQSet employee3 = new EmployeePQSet(12112, "Anjali");  
 treeSetEmployees.add(employee1);  
 treeSetEmployees.add(employee2);  
 treeSetEmployees.add(employee3);  
 System.*out*.println(treeSetEmployees);  
 }  
}

C:\Users\Roystan\.jdks\openjdk-21.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2023.3.3\lib\idea\_rt.jar=61116:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2023.3.3\bin" -Dfile.encoding=UTF-8 -Dsun.stdout.encoding=UTF-8 -Dsun.stderr.encoding=UTF-8 -classpath C:\Users\Roystan\IdeaProjects\JavaWorkspace\out\production\JavaWorkspace Collections.Sets.TreeSetUsingComparatorDemo

[12112 Anjali, 13198 Geetanjali, 15019 Patanjali]

Process finished with exit code 0