**compareTo() – PersonalTask with PersonalTask (task1 < task2)**

|  |  |  |  |
| --- | --- | --- | --- |
| Operation | Purpose | Object State | Expected Result |
| PersonalTask task1 = new PersonalTask("Appointment”, new GregorianCalendar (2016, 11,02), 01, "Oil Change"); | To instantiate a new PersonalTask | Task Type: Appointment  Task Name: Oil Change  Priority: 1  Due Date: November 2, 2016 | A new PersonalTask |
| PersonalTask task2 = new PersonalTask("Appointment”, new GregorianCalendar(2016, 11,01), 01, "Haircut"); | To instantiate a new PersonalTask | Task Type: Appointment  Task Name: Haircut  Priority: 1  Due Date: November 1, 2016 | A new PersonalTask |
| Tast1.compareTo(task2) | To find the task(s) with the earliest due date |  | -1 |

**compareTo() – PersonalTask with PersonalTask (task1 > task2)**

|  |  |  |  |
| --- | --- | --- | --- |
| Operation | Purpose | Object State | Expected Result |
| PersonalTask task1 = new PersonalTask("Appointment”, new GregorianCalendar (2016, 11,01), 01, "Oil Change"); | To instantiate a new PersonalTask | Task Type: Appointment  Task Name: Oil Change  Priority: 1  Due Date: November 1, 2016 | A new PersonalTask |
| PersonalTask task2 = new PersonalTask("Appointment”, new GregorianCalendar(2016, 11,02), 01, "Haircut"); | To instantiate a new PersonalTask | Task Type: Appointment  Task Name: Haircut  Priority: 1  Due Date: November 2, 2016 | A new PersonalTask |
| Tast1.compareTo(task2) | To compare the due dates of two personal tasks |  | 1 |

|  |  |  |  |
| --- | --- | --- | --- |
| Operation | Purpose | Object State | Expected Result |
| PersonalTask task1 = new PersonalTask("Appointment”, new GregorianCalendar (2016, 11,03), 01, "Oil Change"); | To instantiate a new PersonalTask | Task Type: Appointment  Task Name: Oil Change  Priority: 1  Due Date: November 3, 2016 | A new PersonalTask |
| PersonalTask task2 = new PersonalTask("Appointment”, new GregorianCalendar(2016, 11,03), 01, "Haircut"); | To instantiate a new PersonalTask | Task Type: Appointment  Task Name: Haircut  Priority: 1  Due Date: November 3, 2016 | A new PersonalTask |
| Tast1.compareTo(task2) | To compare the due dates of two personal tasks |  | 0 |

**compareTo() – PersonalTask with PersonalTask (task1 = task2)**

**compareTo() – HomeworkTask with HomeworkTask (task1 < task2)**

|  |  |  |  |
| --- | --- | --- | --- |
| Operation | Purpose | Object State | Expected Result |
| HomeworkTask task1 = new HomeworkTask("Lab", new GregorianCalendar(2016, 12, 01), 01, "420-B31", "Sandra Stark", "Lab 10"); | To instantiate a new HomeworkTask | Course Number: 420-B31  Teacher Name: Sandra Stark  Task Type: Lab  Task Number: Lab 10  Priority: 1  Due Date: December 1, 2016 | A new HomeworkTask |
| HomeworkTask task2 = new HomeworkTask("Assignment", new GregorianCalendar(2016, 11, 01), 01, "420-C30", "Allan McDonald", "Assignment 2"); | To instantiate a new HomeworkTask | Course Number: 420-C30  Teacher Name: Allan McDonald  Task Type: Assignment  Task Number: Assignment 2  Priority: 1  Due Date: November 1, 2016 | A new HomeworkTask |
| Tast1.compareTo(task2) | To compare the due dates of two Homework tasks |  | -1 |

**compareTo() – HomeworkTask with HomeworkTask (task1 > task2)**

|  |  |  |  |
| --- | --- | --- | --- |
| Operation | Purpose | Object State | Expected Result |
| HomeworkTask task1 = new HomeworkTask("Lab", new GregorianCalendar(2016, 10, 31), 01, "420-B31", "Sandra Stark", "Lab 10"); | To instantiate a new HomeworkTask | Course Number: 420-B31  Teacher Name: Sandra Stark  Task Type: Lab  Task Number: Lab 10  Priority: 1  Due Date: October 31, 2016 | A new HomeworkTask |
| HomeworkTask task2 = new HomeworkTask("Assignment", new GregorianCalendar(2016, 11, 01), 01, "420-C30", "Allan McDonald", "Assignment 2"); | To instantiate a new HomeworkTask | Course Number: 420-C30  Teacher Name: Allan McDonald  Task Type: Assignment  Task Number: Assignment 2  Priority: 1  Due Date: November 1, 2016 | A new HomeworkTask |
| Tast1.compareTo(task2) | To compare the due dates of two Homework tasks |  | 1 |

**compareTo() – HomeworkTask with HomeworkTask (task1 = task2)**

|  |  |  |  |
| --- | --- | --- | --- |
| Operation | Purpose | Object State | Expected Result |
| HomeworkTask task1 = new HomeworkTask("Lab", new GregorianCalendar(2016, 10, 31), 01, "420-B31", "Sandra Stark", "Lab 10"); | To instantiate a new HomeworkTask | Course Number: 420-B31  Teacher Name: Sandra Stark  Task Type: Lab  Task Number: Lab 10  Priority: 1  Due Date: October 31, 2016 | A new HomeworkTask |
| HomeworkTask task2 = new HomeworkTask("Assignment", new GregorianCalendar(2016, 10, 31), 01, "420-C30", "Allan McDonald", "Assignment 2"); | To instantiate a new HomeworkTask | Course Number: 420-C30  Teacher Name: Allan McDonald  Task Type: Assignment  Task Number: Assignment 2  Priority: 1  Due Date: October 31, 2016 | A new HomeworkTask |
| Tast1.compareTo(task2) | To compare the due dates of two Homework tasks |  | 0 |

**compareTo() – HomeworkTask with PersonalTask (task1 < task2)**

|  |  |  |  |
| --- | --- | --- | --- |
| Operation | Purpose | Object State | Expected Result |
| HomeworkTask task1 = new HomeworkTask("Lab", new GregorianCalendar(2016, 11, 01), 01, "420-B31", "Sandra Stark", "Lab 10"); | To instantiate a new HomeworkTask | Course Number: 420-B31  Teacher Name: Sandra Stark  Task Type: Lab  Task Number: Lab 10  Priority: 1  Due Date: November 1, 2016 | A new HomeworkTask |
| PersonalTask task2 = new PersonalTask("Appointment”, new GregorianCalendar(2016, 10,31), 01, "Haircut"); | To instantiate a new PersonalTask | Task Type: Appointment  Task Name: Haircut  Priority: 1  Due Date: October 31, 2016 | A new PersonalTask |
| Tast1.compareTo(task2) | To compare the due dates of a Homework task and Personal task |  | -1 |

**compareTo() – HomeworkTask with PersonalTask (task1 > task2)**

|  |  |  |  |
| --- | --- | --- | --- |
| Operation | Purpose | Object State | Expected Result |
| HomeworkTask task1 = new HomeworkTask("Lab", new GregorianCalendar(2016, 11, 01), 01, "420-B31", "Sandra Stark", "Lab 10"); | To instantiate a new HomeworkTask | Course Number: 420-B31  Teacher Name: Sandra Stark  Task Type: Lab  Task Number: Lab 10  Priority: 1  Due Date: November 1, 2016 | A new HomeworkTask |
| PersonalTask task2 = new PersonalTask("Appointment”, new GregorianCalendar(2017, 01,01), 01, "Haircut"); | To instantiate a new PersonalTask | Task Type: Appointment  Task Name: Haircut  Priority: 1  Due Date: January 1, 2017 | A new PersonalTask |
| Tast1.compareTo(task2) | To compare the due dates of a Homework task and Personal task |  | 1 |

**compareTo() – HomeworkTask with PersonalTask (task1 = task2)**

|  |  |  |  |
| --- | --- | --- | --- |
| Operation | Purpose | Object State | Expected Result |
| HomeworkTask task1 = new HomeworkTask("Lab", new GregorianCalendar(2016, 11, 01), 01, "420-B31", "Sandra Stark", "Lab 10"); | To instantiate a new HomeworkTask | Course Number: 420-B31  Teacher Name: Sandra Stark  Task Type: Lab  Task Number: Lab 10  Priority: 1  Due Date: November 1, 2016 | A new HomeworkTask |
| PersonalTask task2 = new PersonalTask("Appointment”, new GregorianCalendar(2016, 11,01), 01, "Haircut"); | To instantiate a new PersonalTask | Task Type: Appointment  Task Name: Haircut  Priority: 1  Due Date: November 1, 2016 | A new PersonalTask |
| Tast1.compareTo(task2) | To compare the due dates of a Homework task and Personal task |  | 0 |