**Equals Method**

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| Operation | Purpose | Object State | Expected Result |
| Task1.equals(task2) | To verify if the HomeWorkTask object properties are equivalent | Task1 = courseNumber =”420-B31”  taskType = “Lab”  Teacher = “Sandra”  TaskNumber = 1  Task Priority = 1  dueDate = new GregorianCalendar()  Task2 = courseNumber =”420-B31”  Teacher = “Sandra”  taskType = “Lab”  TaskNumber = 1  Task Priority = 1  dueDate = new GregorianCalendar() | True |
| Task1.equals(task2) | To verify if the HomeWorkTask object properties aren’t equivalent(Course Number) | Task1 = courseNumber =”420-B30”  Teacher = “Sandra”  taskType = “Lab”  TaskNumber = 1  Task Priority = 1  dueDate = new GregorianCalendar()  Task2 = courseNumber =”420-B31”  Teacher = “Sandra”  taskType = “Assignment”  TaskNumber = 1  Task Priority = 1  dueDate = new GregorianCalendar() | False |
| Task1.equals(task2) | To verify if the HomeWorkTask object properties aren’t equivalent(Teacher) | Task1 = courseNumber =”420-B31”  Teacher = “Sandra”  taskType = “Lab”  TaskNumber = 1  Task Priority = 1  dueDate = new GregorianCalendar()  Task2 = courseNumber =”420-B31”  Teacher = “Allan”  taskType = “Lab”  TaskNumber = 1  Task Priority = 1  dueDate = new GregorianCalendar() | False |
| Task1.equals(task2) | To verify if the HomeWorkTask object properties aren’t equivalent(TaskType) | Task1 = courseNumber =”420-B31”  Teacher = “Sandra”  taskType = “Lab”  TaskNumber = 1  Task Priority = 1  dueDate = new GregorianCalendar()  Task2 = courseNumber =”420-B31”  Teacher = “Sandra”  taskType = “Meeting”  TaskNumber = 1  Task Priority = 1  dueDate = new GregorianCalendar() | False |
| Task1.equals(task2) | To verify if the HomeWorkTask object properties are equivalent(Course Num + Teacher) | Task1 = courseNumber =”420-B30”  Teacher = “Sandra”  taskType = “Lab”  TaskNumber = 1  Task Priority = 1  dueDate = new GregorianCalendar()  Task2 = courseNumber =”420-B31”  Teacher = “Allan”  taskType = “Lab”  TaskNumber = 1  Task Priority = 1  dueDate = new GregorianCalendar() |  |
| Task1.equals(task2) | To verify if the HomeWorkTask object properties are equivalent(Course Num + tasktype) | Task1 = courseNumber =”420-B30”  Teacher = “Sandra”  taskType = “Lab”  TaskNumber = 1  Task Priority = 1  dueDate = new GregorianCalendar()  Task2 = courseNumber =”420-B31”  Teacher = “Sandra”  taskType = “assignment”  TaskNumber = 1  Task Priority = 1  dueDate = new GregorianCalendar() | False |
| Task1.equals(task2) | To verify if the HomeWorkTask object properties are equivalent(teacher + tasktype) | Task1 = courseNumber =”420-B31”  Teacher = “Sandra”  taskType = “Lab”  TaskNumber = 1  Task Priority = 1  dueDate = new GregorianCalendar()  Task2 = courseNumber =”420-B31”  Teacher = “Allan”  taskType = “Assignment”  TaskNumber = 1  Task Priority = 1  dueDate = new GregorianCalendar() | False |
| Task1.equals(task2) | To verify if the HomeWorkTask object properties are equivalent(All different) | Task1 = courseNumber =”420-B30”  Teacher = “Sandra”  taskType = “Lab”  TaskNumber = 1  Task Priority = 1  dueDate = new GregorianCalendar()  Task2 = courseNumber =”420-B31”  Teacher = “Allan”  taskType = “Assignment”  TaskNumber = 1  Task Priority = 1  dueDate = new GregorianCalendar() | False |
| Task1.equals(task2) | To verify that two different objects aren’t equal | Task1 = courseNumber =”420-B31”  Teacher = “Stan”  taskType = “Lab”  TaskNumber = 1  Task Priority = 1  dueDate = new GregorianCalendar()  task2 =  TaskType = “Appointment”  TaskName = “Doctor’s”  TaskLocation = “Ottawa”  TaskPriority = 1  dueDate = new GregorianCalendar | False |
| Task1.equals(task2) | To verify if the PersonalTask object properties are equivalent | Task1 =  TaskType = “Appointment”  TaskName = “Doctor’s”  TaskLocation = “Ottawa”  TaskPriority = 1  dueDate = new GregorianCalendar()  Task2 =  TaskType = “Appointment”  TaskName = “Doctor’s”  TaskLocation = “Ottawa”  TaskPriority = 1  dueDate = new GregorianCalendar() | True |
| Task1.equals(task2) | To verify if the PersonalTask object properties aren’t equivalent(TaskType) | Task1 =  TaskType = “Rendez-vous”  TaskName = “Doctor’s”  TaskLocation = “Ottawa”  TaskPriority = 1  dueDate = new GregorianCalendar()  Task2 =  TaskType = “Appointment”  TaskName = “Doctor’s”  TaskLocation = “Gatineau”  TaskPriority = 2  dueDate = new GregorianCalendar() | False |
| Task1.equals(task2) | To verify if the PersonalTask object properties aren’t equivalent(Task Name) | Task1 =  TaskType = “Appointment”  TaskName = “Doctor’s”  TaskLocation = “Ottawa”  TaskPriority = 1  dueDate = new GregorianCalendar()  Task2 =  TaskType = “Appointment”  TaskName = “Vet”  TaskLocation = “Gatineau”  TaskPriority = 2  dueDate = new GregorianCalendar() | False |
| Task1.equals(task2) | To verify if the PersonalTask object properties aren’t equivalent(TaskType + Task Name) | Task1 =  TaskType = “Appointment”  TaskName = “Doctor’s”  TaskLocation = “Ottawa”  TaskPriority = 1  dueDate = new GregorianCalendar()  Task2 =  TaskType = “Meeting”  TaskName = “Vet”  TaskLocation = “Gatineau”  TaskPriority = 2  dueDate = new GregorianCalendar() | false |