**ITC515: Professional Programming Practice**

**Term 2, 2020**

**Assessment 4 – Debugging: Resolution**

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Contents

[1.Resolution of bug1: 3](#_Toc53786775)

[1.1Correct the code: 3](#_Toc53786776)

[1.2 Testing 4](#_Toc53786777)

[2.Resolution Bug2 7](#_Toc53786778)

[2.1 Correct the code: 7](#_Toc53786779)

[2.2 Testing 9](#_Toc53786780)

# 1.Resolution of bug1:

## 1.1Correct the code:

When user return the book that time not calculate day properly, so I correct code in calendar.java file see below code:

**Solution 1:**

**Before:**

A picture containing text

Description automatically generated

**After**:

Changed milli seconds per day

A picture containing text

Description automatically generated

**Solution 2:**

For this solution

**Before**: when user enter N value for book damaged or not again overdue value in patron object.

Graphical user interface, text, application

Description automatically generated

**After:**

Not added fine before the asking for book damaged or not

Below code in corrected in returnbook control.java file

Comment the line number 53 in ReturnBookControl.java

Graphical user interface, text, application

Description automatically generated

## 1.2 Testing

Using **automated test code** check bug is eliminated or not

Graphical user interface, text, application

Description automatically generated

**Manual Testing:**

First borrow book and add current day after three day

After the Return book then show the display proper fine

**Graphical user interface, text, application, email

Description automatically generated**

Graphical user interface, text, application

Description automatically generated

# 2.Resolution Bug2

## 2.1 Correct the code:

When user return the book that time not calculate day properly, so I correct code in calendar.java file see below code:

**Solution 1:**

**Before:**

A picture containing text

Description automatically generated

**After**:

Changed milli seconds per day

A picture containing text

Description automatically generated

**Solution 2:**

For this solution

**Before**: when user enter N value for book damaged or not again overdue value in patron object.

Graphical user interface, text, application

Description automatically generated

**After:**

Not added fine before the asking for book damaged or not

Below code in corrected in returnbook control.java file

Comment the line number 53 in ReturnBookControl.java

Graphical user interface, text, application

Description automatically generated

## 2.2 Testing

Using **automated test code** check bug is eliminated or not

Follow step using test case:

Text

Description automatically generated

Graphical user interface, text, application

Description automatically generated

**Manual Testing:**

First borrow book and add current day after three day

After the Return book then show the display proper fine