

Reflection & Test Plan - Assignment 1 Question 23

Normal Data

Test Run 1

Program Input

Expected Program Output

Actual Output

Test Run 2

Program Input

Expected Program Output

Actual Output

Abnormal Data

Test Run 3

Program Input

Expected Program Output

Actual Output

Test Run 4

Program Input

Expected Program Output

Actual Output

Boundary Data

Test Run 5

Program Input

Expected Program Output

Actual Output

Commentary

- significant types of errors/warnings you faced
 - Errors I faced were inputting strings in the console.
- whether you were able to correct them as soon as you encountered them
 - I didn't do any validation, I just let it error out: the input asks for a number.
- what commenting strategy you used (eg., Javadoc)
 - I tried out being really specific in my comments for this one. Most of the variable names are pretty self-explanatory and the math part would be obvious to any programmer. Might have been some overkill. Functions still commented nicely.

Normal Data

Test Run 1

Program Input

10

Expected Program Output

Hours: 240

Minutes: 14400

Seconds: 864000

Actual Output

as expected

Test Run 2

Program Input

1

Expected Program Output

Hours: 24

Minutes: 1440

Seconds: 86400

Actual Output

as expected

Abnormal Data

Test Run 3

Program Input

abc

Expected Program Output

Error

Actual Output

```
java.lang.NumberFormatException: For input string: "abc"  
    at java.lang.NumberFormatException.forInputString(NumberFormatException.java:65)  
    at java.lang.Integer.parseInt(Integer.java:492)  
    at java.lang.Integer.parseInt(Integer.java:527)
```

```
at TimeCalculator.setDays(TimeCalculator.java:39)
at TimeCalculator.<init>(TimeCalculator.java:29)
at answers.main(answers.java:80)
```

Test Run 4

Program Input

<empty input>

Expected Program Output

Error

Actual Output

```
java.lang.NumberFormatException: For input string: ""
    at java.lang.NumberFormatException.forInputString(NumberFormatException.java:65)
    at java.lang.Integer.parseInt(Integer.java:504)
    at java.lang.Integer.parseInt(Integer.java:527)
    at TimeCalculator.setDays(TimeCalculator.java:39)
    at TimeCalculator.<init>(TimeCalculator.java:29)
    at answers.main(answers.java:80)
```

Boundary Data

Test Run 5

Program Input

1.5

Expected Program Output

Error

Actual Output

```
java.lang.NumberFormatException: For input string: "1.5"
    at java.lang.NumberFormatException.forInputString(NumberFormatException.java:65)
    at java.lang.Integer.parseInt(Integer.java:492)
    at java.lang.Integer.parseInt(Integer.java:527)
    at TimeCalculator.setDays(TimeCalculator.java:39)
    at TimeCalculator.<init>(TimeCalculator.java:29)
    at answers.main(answers.java:80)
```