Reviewer: Nayana Raj Cheluvaraju

Course: SOEN 6011

Team: Team B

Professor: P. Kamthan

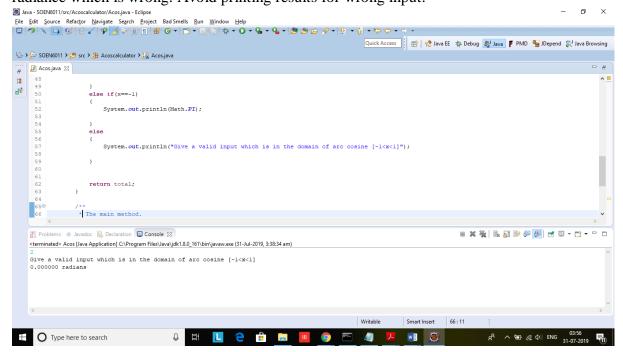
Problem 5 -- Review report for function F1: arccos(x)

The review for above function is being carried by multiple ways:

- 1. Manually
- 2. Tools
 - Eclipse -Find Bugs
 - Eclipse PMD
 - Eclipse checkstyle

Results observed through manual calculation:

- 1. Naming convention are not followed according to coding standard. Example:
 - Class name: Acos
 Name is very short and looking at name user will not recognize or predict function as there is no function called Acos. *Instead it could be ArccosImp*.
 - Method name: sum
 Short name and it does not say sum of which function.
- 2. Function name says sum(), along with calculation of sum there is also calculation of range inside function. So, I recommend changing function name.
- 3. When the wrong input is given, along with message, it also displays result which leads confusion to the user. Example: when input is 2, output printed is 0.0000 radiance which is wrong. Avoid printing results for wrong input.



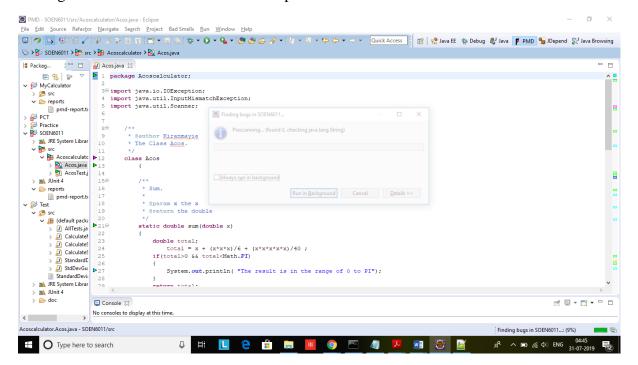
- 4. I dint find error message(above image) promising.
- 5. Problem statement does not say to restrict the display rounding to 5 decimal places. Instead it says to develop calculator function, so it should display complete value.

```
Signar SchNolling Concentration (National Park Edge Period End Smells Bun Window Help

| Feet Survey Redron Newlyder Search Period End Smells Bun Window Help
| Accopies 2|
| Accopies 2|
| Accopies 2|
| Accopies 3|
| Accopies 4|
| Accopies 4|
| Accopies 5|
| Accopies 6|
| Accopies 5|
| Accopies 5
```

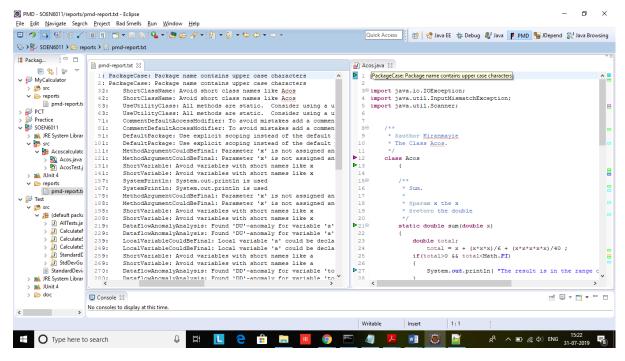
Results are observed by running Find-bugs tools.

No bugs encountered. Screenshot exhibit proof.



Below are the results generated from PMD tool:

The below screenshot shows the result generated by PMD tool, I have showed one example in screenshot showing how to trace error. In PMD file each error is repeated twice, just ignore repetition. I feel most of the errors are really valid. Example: error on class name, error for using println in unnecessary places etc.



Following are the results observed through Check style tool:

- 1. Indentation: Observed in whole program.
- 2. Whitespace expected around '=', '{' etc.

