Follow the directions below:

Write a program with a class titled Fan. This class is to contain:

* ~~Four constants named STOPPED, SLOW, MEDIUM, and FAST. The constants are to hold the values of 0, 1, 2, and 3 respectively.~~
* ~~A private field named speed that holds one of the constant values with the default being STOPPED.~~
* ~~A private Boolean field titled on that specifies whether the fan is on or off.~~
* ~~A private field named radius that holds the radius of the fan with a default value of 6.~~
* ~~A String field that holds the color, with the default being white.~~
* ~~Setter and getter methods for all mutable fields.~~
* ~~A no-argument constructor that sets all fields with a default value.~~
* ~~A constructor takes arguments and sets values.~~
* Write a toString() method that returns a description of the Fans state.
* Write test code that creates two instances of the Fan class, one using the default constructor and the other using the argument constructor. Write code that displays the functionality of the Fan class methods.

**Assignment Requirements and Grading:**

* This assignment is due by **Sunday, 11:59 p.m., CST**.
* Add the necessary documentation as described in [Documentation Requirements](https://cyberactive.bellevue.edu/bbcswebdav/xid-99483471_4) [Click for more options](https://cyberactive.bellevue.edu/webapps/blackboard/content/listContent.jsp?course_id=_534132_1&content_id=_16476576_1&mode=view#contextMenu) .
* Submit your .java file(s) by clicking on the Assignment Link above, then scroll down to the Upload Files section and click on Browse Local Files. Select your assignment file(s), add any links as appropriate, add the URL to your GitHub repository in the comments area, then click on Submit.
* Create (if you haven't already) a directory in CSD-402 named module-6.
* Save your java file(s) to your CSD/CSD-402/module-6 directory. Stage, commit and then push the file(s) to your GitHub repository.
  + Click on the following link for instructions: [GitHub Stage, Commit, and Push.pdf](https://cyberactive.bellevue.edu/bbcswebdav/xid-101703982_4) [Click for more options](https://cyberactive.bellevue.edu/webapps/blackboard/content/listContent.jsp?course_id=_534132_1&content_id=_16476576_1&mode=view#contextMenu)
* To view or print the grading rubric for this assignment, click on the following link: [Programming Rubric](https://content.bellevue.edu/cst/csd/rubricprogrammingv2.pdf).