

Informatics 115, Fall 2022

Due: Thursday night by 11:59 PM, October 13, 2022

Professor Iftexhar Ahmed

Homework

Reading/tutorial: <http://www.vogella.com/tutorials/JUnit/article.html>

Using Eclipse and Java, write a class that is named with your full name in camel case (e.g., “public class IftexharAhmed {}”), containing the following methods:

1. `String getFullName()`. This method returns your full name, with spacing, as a string.
2. `String getFirstName()`. This method returns your first name as a string.
3. `String getLastName()`. This method returns your last name as a string.
4. `String getUCInetID()`. This method returns your UCInetID as a string.
5. `int getStudentNumber()`. This method returns your UCI student number.
6. `String getRotatedFullName(int shift)`. This method returns your name, rotated (with wrap-around), by ‘shift’ characters. Positive numbers rotate to the left, and negative numbers rotate to the right. For example, for my name “Iftexhar Ahmed”, if I executed:

For example, for my name “Iftexhar Ahmed”, the following client code would behave as such:

```
IftexharAhmed j = new IftexharAhmed();
System.out.println(j.getFullName());
System.out.println(j.getFirstName());
System.out.println(j.getLastName());
System.out.println(j.getUCInetID());
System.out.println(j.getRotatedFullName(2));
System.out.println(j.getRotatedFullName(-5));
```

I would expect to get the output:

```
Iftexhar Ahmed
Iftexhar
Ahmed
Iftexhar
tekhar AhmedIf
AhmedIftexhar
```

Then, create a JUnit test class called “Test...” followed by your name (e.g., “public class Test IftexharAhmed {}”), containing methods to test each of the above methods. For *each* of the above methods 1 – 5, write one test-case method that contains one execution of the tested method and checks its expected value. For method 6, provide two separate test case methods: one with a positive shift invocation of the method, and one with a negative shift invocation of the method.

To turn in, create one .zip file that contains only these two .java files. Upload this .zip file to the CANVAS by due date.