Programming Project 1 – collaboration permitted

In Eclipse or Net Beans, create a java application which permits a user to input 2 numbers (num1 and num2) from the console and output to the console the following binary operations:

- sum (num1 + num2)
- difference (num1 num2)
- product (num1 * num2)
- quotient (num1 / num2)
- exponent (num1^{Num2})
- factorial (num1! + num2!)
- sin(num1) + cos(num2)

Requirements:

- 1. Two different classes must be created to implement the application (use these names):
 - a. Class **OperationsApp** which contains the main method.
 - b. Class **Operations** which is used to instantiate object(s) and contains the separate methods for each operation.
- 2. Use double as the type for num1 and num2.
- 3. Study the Java class Math API for use in your code. View this API at: https://docs.oracle.com/javase/8/docs/api/java/lang/Math.html
- 4. Do not code for exceptions.
- 5. Submit as e-mail attachments to mheinen 1@msn.com a single MS Word document containing the code for each class. Include (paste) the output from your console at the end of the document to demonstrate your code works.
- 6. This project is due NLT midnight 10-11-2015.
- 7. Your code may be run in the classroom and projected to students for inspection / discussion. Be prepared to explain/discuss the logic of your code.