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1  /**
2  File: Ned_Smith_Lab3_Task2.cpp
3  Name: Ned Smith
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5  Date: January 25, 2023
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10 */
11
12 #include <iostream>
13 #include <fstream>
14
15 using namespace std;
16 //Declare the constant
17 const double k_pay_increase = 0.076;
18 int main()
19 {
20     //Declare the variables
21     double current_annual_salary, new_annual_salary, new_monthly_salary, retroactive_salary;
22     //Prompt the user to enter the current annual salary
23     cout << "Enter the current annual salary: " << endl;
24     cout << "I will return the new annual salary, the new monthly salary, and the amount of
retroactive pay due" << endl;
25     //Read the user's input for the current annual salary
26     cin >> current_annual_salary;
27     //Create the outData file using ofstream
28     ofstream outData;
29     //Open the outData file and name it Output.txt
30     outData.open("Output.txt");
31     //Calculate the new annual salary, new monthly salary, and the retroactive pay using the
formulas below
32     new_annual_salary = current_annual_salary + (current_annual_salary*k_pay_increase);
33     new_monthly_salary = new_annual_salary/12;
34     retroactive_salary = (new_annual_salary - current_annual_salary)/2;
35     //Output the new annual salary, the new monthly salary, and the retroactive pay to the console
36     cout << "The new annual salary: " << new_annual_salary << endl;
37     cout << "The new monthly salary: " << new_monthly_salary << endl;
38     cout << "The new retroactive salary: " << retroactive_salary << endl;
39     //Output the new annual salary, the new monthly salary, and the retroactive pay to the
"Output.txt" file
40     outData << "The new annual salary: " << new_annual_salary << endl;
41     outData << "The new monthly salary: " << new_monthly_salary << endl;
42     outData << "The new retroactive salary: " << retroactive_salary << endl;
43     //Close the outData file
44     outData.close();
45     return 0;
46 }

```