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CS 31

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CS 31 Report for Project 1

1. In step 5, I provided the three different inputs that the program asks for. The first input I provided was 100 (to represent how many registered voters were surveyed), then I gave an input of 50 (to represent the number of those surveyed who said they will vote for Joe), and finally an input of 50 (to represent the number of those surveyed who said they will vote for Donald). This particular set of inputs yielded normal results for the most part except for when it came to predicting who would win the election. If both Donald and Joe got an equal number/percentage of votes, then it should be a tie or say that it would be a tie. Instead, it says that Donald is predicted to win the election which does not make any sense since both Donald and Joe got the same number of votes.
2. logic\_error.cpp: For the logic error, I changed the number from 100.0 to 1000.0 for the variable pctJoe. I did not encounter any error messages once running the program, but I did encounter some unusual results. Since my input was 100 for total surveyed, 30 for Joe, and 70 for Donald, I would normally expect it to say that 30.0% say that they will vote for Joe, 70.0% will vote for Donald, and that Donald is predicted to win the election. Instead, it says that 300.0% will vote for joe, 70.0% will vote for Donald, and that Donald is predicted to win the election. This obviously does not make sense as more than 100.0% can not vote. Even if it were possible, 300 is greater than 70 and it should say Joe should win the election in this case.

1. compile\_error.cpp: For the compile error, I deleted a semicolon after the line of code that says “using namespace std” and I also misspelled the variable “pctJoe” the second time it was mentioned in the code. I instead spelled it as “pctJo.” The error messages that I encountered were “Expected ';' after namespace name” and “Use of undeclared identifier 'pctJo'.” This makes sense as there needs to be a semicolon after that line of code and “pctJo” should be spelled as “pctJoe” to match the variable mentioned earlier in the code. I also encountered a warning stating “unused variable ‘pctJoe’.” This makes sense because I intentionally misspelled pctJoe as pctJo when I used for the second (and final) time and therefore pctJoe never got used.