original.cpp

For original.cpp, I have started the first test by inputting 0 for the number of registered voters surveyed, 2 for the amount that will vote for Gavin, and 8 for the amount that will vote for Brian. The program gave me the output that inf% will vote for Gavin, inf% will vote for Brian, and that based on this, Gavin is predicted to win the election. For the second test, I used input -4 for the number of registered voters surveyed, -1 for the amount that will vote for Gavin, and -3 for the amount that will vote for Brian. The program gave me the output that 25.0% will vote for Gavin, 75.0% will vote for Brian, and that based on this, Gavin is predicted to win the election.

logic\_error.cpp

For logical\_error.cpp, I have changed the multiplication operator in line "double pctGavin = 100.0 \* forGavin / numberSurveyed;" to a division operator, so it looks like this "double pctGavin = 100.0 / forGavin / numberSurveyed;". The program still built successfully with no error messages, however, the output that it gave us is not what we were expecting. For example, when inputting the number 4 for the number of registered voters surveyed, 3 for the number of people who will vote for Gavin, and 1 for the number of people that will vote for Brian, the program gives me the output that 8.3% will vote for Gavin, 25% will vote for Brian, and that Gavin is predicted to win the election. This is not what we expected because if the logical error was never added, it should have given us the output that 75% will vote for Gavin, 25% will vote for Brian, and that Brian is predicted to win. It is only giving us the right prediction of who will win.

compile\_error.cpp

For compile\_error.cpp, I have replaced all semicolons in the code with commas. I have also taken advantage of c++ being case sensitive by making some of the letters in some variable names capitalized differently than how it is capitalized in the declaration or by misspelling the variable name. For example, in line 27, I have misspelled the variable name pctGavin as pctGvin. In line 30, I have also capitalized the first letter in the variable name ForBrian when it should be written as forBrian. When running the code, it let me know that semi-colons are needed after the expressions or at the end of declarations (which were all of them that normally need a semi-colon). Additionally, it lets me know that I was using an undeclared identifier, pctGvin, and it asked me if I was trying to write pctGavin, as that was the name of the variable that was declared in the program. Lastly, it also let me know that I used yet another undeclared identifier, ForBrian, and it let me know if I was trying to write forBrian as that is also the name of another variable that was declared in the program. Due to these errors, the program could not run.