CS Report WK 1

Step 5

As requested, I input a numerical value for how many people were surveyed (900). However, when they asked me how many approved, I put 1000. When asked how many disproved I put 100. As a result of this input, I received very odd results. I was told that 111% approved of the president, while 11% disproved of his presidency. I compiled the program for a second time, this time putting unusual numerical values for the approval and disproval. The number of people surveyed stayed the same (900). However, this time, I put that 2000 people approved and 1000 people disproved. This time, I was told that 222% approved of his handling of his job while 111% disproved of his behavior. I chose these values because I knew they would produce values over 100% (because there are no statements to prevent this from happening).

Logic\_Error.cpp

For the logic error, I chose to multiple by 1000 instead of 100 for the “pctApprove”. It is not detected as a syntax/compiling error. But when I put in normal values (900 surveyed, 800 approved, 100 disproved), the result is an 888.9% approval percentage and an 11.1% disproval percentage. It is unusual in that the two percentages do not add up to 100% (roughly).

I introduced one other logic error. Instead of using the ‘>’ sign, I replaced with a ‘<’ sign. In implementing this error alone, it gave the correct values in output, but it said that “more disapprove than approve”. This response is nonsensical.

Compile\_Error.cpp

For the compiling error in Xcode, I chose to:

1. Neglect putting a semicolon after a statement

In doing this, it produced an error: “Expected ‘;’ after expression”. This prevented the compiling of the program because of poor syntax.

1. Neglect putting in another ‘>’ sign in the ‘cin’ statement. The error stated that there were “invalid operands to binary expression”. This mistake also prevented the program from compiling.