**Step 5 Discussion**

**Input 1 :**

numberSurveyed = 50

forNewsom = 30

forCox = 40

The sum of the voters for both Newsom and Cox are more than the total number of the people that participated in the poll but yet the program still gives the result that Cox is predicted to win the election. The nonsensical output is a logic error because there are no restrictions or tests on the user input.

**Input 2 :**

numberSurveyed = 100

forNewsom = 50

forCox = 50

Both Newsom and Cox have received an equal amount of voters, however the output of the program still shows **Cox is predicted to win the election.** This incorrect result is a logic error from the incomplete conditions in the last if statement, which doesn’t include the case when there is a tie situation.

**Step 6 Logic Error**

**Error 1 :**

While the percentages for both Newsom and Cox should be multiply by 100, but instead I multiplied it ( number of votes each candidates received / total of people being surveyed ) by 10, which gives a result that are smaller by a factor of 10.

**Error 2:**

I switch the order of the division tonumberSurveyed / forCox **,** so that the percentage calculated will be wrong without having any warning.

**Error 3:**

In the if statement I switch the sign from ‘>’ to ‘<’ which will make the candidate who received less votes to be predicted as the winner of the election.

**Step 7 Compiler Error**

**Error 1 :**

I removed the semicolon of the first output statement as follow,

cout >> "How many registered voters were surveyed? ";

then the compiler gave an error message that stated:

**Expected ';' after expression**

**Error2 :**

I deleted one of the sign << after cout statement as follow,

cout < "How many of them say they will vote for Newsom? ";

then it produce an error message that stated,

**Invalid operands to binary expression ('std::\_\_1::ostream' (aka 'basic\_ostream<char>') and 'const char \*')**

**Error3 :**

I removed the “ ” for the strings after the cout statement as follow,

cout << "How many of them say they will vote for Cox? ;

then it produce an error message that stated,

**Expected expression**