1. Without changing the source code, my inputs for numberSurveyed (100), likeZoom (50), and sickOfZoom (130) produce an incorrect result for pctSick. The output is 130%. The result is nonsensical because the pctSick should never exceed 100%.
2. To introduce a logic error, I defined pctSick = 100.0 \* likeZoom / numberSurveyed (in the original code, pctSick = 100.0 \* sickOfZoom / numberSurveyed). My inputs are 100 for numberSurveyed, 30 for likeZoom, and 70 for sickOfZoom. The expected output is 70.0%, whereas the actual output for pctSick is “30.0% are sick of Zoom”. While this code compiles successfully, its output for pctSick does not correctly express the percentage of students who are sick of zoom classes because it has a mismatched definition and output.
3. I have two compilation errors in the compile\_error code. The first is the wrong direction of the arrows in the line “cin << numberSurveyed;”(changed from “>>” to “<<”). The compiler says the code can’t compile successfully because it contains “invalid operands to binary expression”. This means that one of the language syntax rules is violated. The second is a missing semicolon (;) in the line “ cin >> likeZoom”. The compiler suggests that ‘;’ is expected after expression. This also prevents a successful build as it violates one rule of the language syntax.