**Project 1 Report**

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1. **original.cpp**

Played around with different input values after entering the C++ file into the development environment. Provided the input as 100 for the variable numberSurveyed, and proceeded to input 110 for likeInPerson and 120 for likeAtHome. The program output reads:

“110.0% prefer being at school in person.

120.0% prefer doing school from home.”

However, this does not make sense, since the percentage of survey respondents cannot exceed 100%.

1. **logic\_error.cpp**

Two changes were made to original.cpp here:

1. Replaced line 22

“double pctLikeAtHome = 100.0 \* likeAtHome / numberSurveyed;” with

“double pctLikeAtHome = 42.0 \* likeAtHome / numberSurveyed;”

1. Replaced line 32

“if (likeInPerson > likeAtHome)” with

“if (likeInPerson < likeAtHome)”

Both these changes allow the program to build successfully, but give a wrong prediction about the number of students and their willingness to attend school from a particular location.

1. **compile\_error.cpp**

Two changes were made to original.cpp here too:

1. Removed the semi-colon in line 22, making it

“double pctLikeAtHome = 100.0 \* likeAtHome / numberSurveyed”

Associated error message:

“compile\_error.cpp:24:6: error: expected ‘,’ or ‘;’ before ‘cout’”

1. Changed the text case of the variable in line 30, making “pctLikeInPerson” to “pctlikeinperson”

Error message received:

“compile\_error.cpp:30:14: error: ‘pctlikeinperson’ was not declared in this scope”