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Step 5

A nonsensical answer occurred with the program if you were to input a negative number.

How many students were surveyed? -5

How many of them study more than 20 hours per week? 5

-100.0% study more than 20 hours per week.

Having a negative percentage is impossible and must be checked for during the cin. Or if you were to input a higher number for the second cin than the first, it would give you a percentage over 100.

How many students were surveyed? 100

How many of them study more than 20 hours per week? 200

200.0% study more than 20 hours per week.

The survey must include a lot of engineers!

Logic Error

It is a common error for a programmer to mistakenly type more or fewer numbers than necessary and not notice. In the program, I changed 100 to 1000 in

double pctStudiers = 1000.0 \* studiers / surveyed;

thus the percentage I would get is much more than 100 and nonsensical. Typos such as these can create problems within the program if not paid attention to.

Compile Error

The first compilation error that I create was not including int main(), thus the program has no main function to execute everything within it.

Error message: Expected unqualified-id

The second error that I did was that I removed the semi colon after a cout << endl which created a compilation error as you must include semi colons if you want to execute a statement or command especially for cout.

Error message: Expected ‘;’ after expression