Programming hand-in 11

Link to GitHub: [Aarhus-University-ECE/assignment-11-sima0110: assignment-11-sima0110 created by GitHub Classroom](https://github.com/Aarhus-University-ECE/assignment-11-sima0110)

Graphical user interface, text, application

Description automatically generated

Proof by induction:

I start by recalling what factorial calculation is. To calculate the factorial of a number, the number gets multiplied by all numbers smaller than itself. For example:

Then I decide the base case to be , as the program would return 1 in this case since  and therefore the base case is correct. This means that is also correct, as it uses , which is correct, and multiplies it by 2: . Meaning that would be true as well and so on. Therefore, it can be said that is true.