# Writing Your First Function With GitHub Copilot

**To best understand the future of software development, try programming this factorial calculator with GitHub Copilot!**

In software development, there is a constant demand for the quick delivery of efficient code. With the recent creation of GitHub Copilot, a cutting-edge AI-driven coding assistant, developers can now code better innovations more easily and quickly than ever before. To show-off just how easy Copilot can make programming, this project will walk through crafting a factorial calculator. [Factorials](https://simple.wikipedia.org/wiki/Factorial) serve as a great example of a simple problem that has many applications in statistics and algorithm design, such as counting the many arrangements of a group of objects. Even if it has been decades since your last statistics class, this functionality can still be easily built by leaving the specifics of these mathematical properties to Copilot.