

# Week 8 Assignment

Programming for computer engineering  
(E22.285191U013.A)

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1) Consider the following program for computing factorial numbers:

**a) How many arithmetic operations (+, −, \*, /) are required to compute fact(5)?**

There is a total of 10 arithmetic operations to calculate fact(5)

**b) How many arithmetic operations (+, −, \*, /) are required to compute fact(n) for any positive integer n?**

It takes a total of  $2 \cdot n$  arithmetic operations to compute fact(n)

Link to GitHub:

<https://github.com/Aarhus-University-ECE/assignment-8-AndreasGBP>