

## The use of ChatGPT in this project

Initially, I have used ChatGPT for brainstorming and the problem invention.

It provided me with an interesting idea, „Factorial Calculator“, however I knew that would be too simple, considering that we had already covered it in lectures.

After that I realised, I could build on this idea and create a bigger calculator which would not only handle factorials of a number but also bigger functions using the factorial function, specifically formulas for permutations,  $r\_permutation$  and  $r\_combinations$ .

This marked the genesis of the Combinatorial Calculator idea.

After that I thought about how I could implement the formulas and check the conditions.

I was not sure about the correctness of the conditions, so I asked ChatGPT to validate them.

Then I wanted to find out if there is a built-in function to check if a number is bigger than or equal to 0. Although ChatGPT gave me an answer, it was not entirely functional, so I decided to define my own function for that.

Next, I asked ChatGPT to help me with a for loop which would go through a list, check specific conditions for its elements and employ filter identity accordingly. Ultimately, I decided not to use a for loop to maintain simplicity in the code.

I needed to fix a part of my code, to filter out sublists where  $r > n$ .

ChatGPT proved to be helpful.

Lastly, I sought ChatGPT's general perspective on my code.

I have also relied on ChatGPT to assist me correcting the grammar of this document, as English is not my native language.