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Task 1

Considering the same example you solved in the previous assignment (radiative heat transfer between two parallel plates), how many shields with epsilon = 0.1 should you add in order to have the new heat transfer rate to be 1% of the case without shields?

$$\dot{Q}_{N \; shields = \frac{A\sigma\left(T_1^4 - T_2^4\right)}{(N+1)\left(\frac{1}{\varepsilon} + \frac{1}{\varepsilon} - 1\right)} = \frac{1}{N+1}\dot{Q}_{no \; shields}$$

$$\dot{Q}_{N \; shields=\; rac{1}{N+1} \dot{Q}_{no \; shields}}$$

$$N = 1 \ * \left(\frac{Q \ N \ shields}{\dot{Q}_{no \ shields}} \right) - 1$$

$$N = 1 * \left(\frac{100\%}{1\%}\right) - 1$$

$$N = 100 - 1$$
 $N = 99$

Task 2

You should create a pdf file with screenshots of all of the steps we went through (clearly from your own file) and explain briefly the reason behind the use of each step







