Homework #4 (Panel Methods)

Design your won Joukowski airfoil with thickness and camber.

At the angle of attack of 2, 5 10, 15 and 30 degrees, using the panel method, get the solution for the flow around your airfoil.

- 1. Draw streamlines around the airfoil
- 2. Plot the distribution of pressure coefficient Cp
- 3. Calculate the lift coefficient and compare it with the theory
- 4. Discuss the effect of panel design on the results