**Instructions:**

You need to solve the assignment problem according to details mentioned in the row of random number assigned to you. This random number will remain same for you throughout the semester.

If random number of finally submitted assignment doesn't match with what is assigned to you - 0 Marks (it is not open for further discussion, No excuse "By mistake I did so")

Those of you who don't know their random number can drop a mail to "120010028@iitb.ac.in" from your "GPO MAIL ID" and in reply you will get your random number. You can also verify random number by mail.

You can mail "120010028@iitb.ac.in" for ANY doubt or verification or in case you run into any problem.

If you face difficulty dealing with any variable of given assignment problem, you may mail to change it but this change is NOT GUARANTEED (good chance for airfoil change).

Next assignment is going to be on the similar lines without much changes, so it is better to write code now.

**Ethics:**

Cheating in assignment - May invite FR grade, DUGC will be informed for sure (No cribbing about this, better don't submit the assignment if you are inclined to cheat)

Don't copy straight away from web, Rest assured you will run into problem. As a starting point for understanding you may check these codes.

**Marks Distribution:**

5 marks - Submission (basic description of source panel method "IN YOUR OWN WORDS" + steps of algorithm used by you to code)

5 Marks - C++/Python/Matlab code (if not copied from web) + Plot of your geometry with proper axes (for "airfoil" x-axis [0 1] (plot x/c) y-axis [-1 1] (plot y/c))

3 Marks - C\_p distribution each case (3 different angle of attacks, 1 mark each)

3 Marks - C\_l, C\_d distribution each case (3 different angle of attacks, .5 marks each)

4 Marks - Conclusion, understanding of results "WHAT YOU UNDERSTOOD"

**Submission:**

You need to make a ZIP FOLDER with name "ROLLNUMBER\_AE333\_source\_panel\_method" for a valid submission.