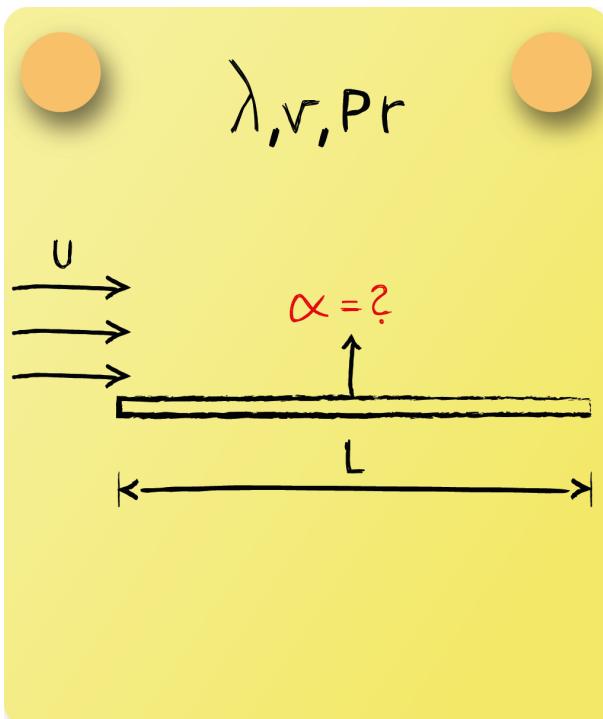




# Heat Transfer Correlation: Task 4



The image describes a fluid which streams with velocity  $u$  over a plate with length  $L$ . A turbulent boundary layer is formed on the plate.

- 1 HTC.6:  $\overline{Nu_L} \approx 0.036Pr^{0.43}(Re_L^{0.8} - 9400)$
- 2  $Re_L = 4.1:651465.8 | 4.2:961076.4 | 4.3:759878.4 | 4.4:739645$
- 3  $\overline{Nu_L} = 4.1:1102.55 | 4.2:1861.24 | 4.3:2788.36 | 4.4:1254.04$
- 4  $\overline{\alpha} = 4.1:2.82 | 4.2:4.668 | 4.3:1759.46 | 4.4:3.032$