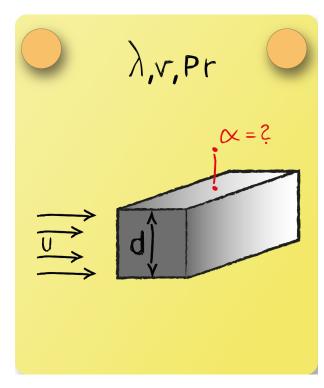


## Heat Transfer Correlation: Task 7



The image describes a square bar which is flowed transversely on one side surface by a fluid with velocity u.



HTC.9b:  $\overline{Nu_d}=\frac{\overline{\alpha}d}{\lambda}=C\cdot Re_d^mPr^{0.4}$  with C=0.102. m=0.675 and  $Re_d=\frac{ud}{\nu}$ 



Results:  $Re_d = 7020 \ \overline{Nu_d} = 35.11 \ \overline{\alpha} = 7.02$