

## Lecture 6 - Question 6

$\rho$	1.3 kg/m <sup>3</sup>
$C_p$	1006 J/kg·K
$\lambda$	0.024 W/m·K
$a$	$1.8 \cdot 10^{-5}$ m <sup>2</sup> /s
$\eta$	$1.7 \cdot 10^{-5}$ kg/m·s

Consider an ideal fluid with the properties as listed in the figure. Determine the Prandtl number Pr.



$$\text{Pr} = \frac{\eta \cdot c_p}{\lambda} = 0.7126$$