Consider a potential divider as shown below. Calculate the output potential of the divider (i.e. across the load resistor) as a function of the variable value $R_L$ of the load resistance. Plot your result for the case $R_1 = 100\,\Omega$ and $R_2 = 100\,\Omega$ and $V_s = 5\,V$. 

![Potential Divider Circuit Diagram]