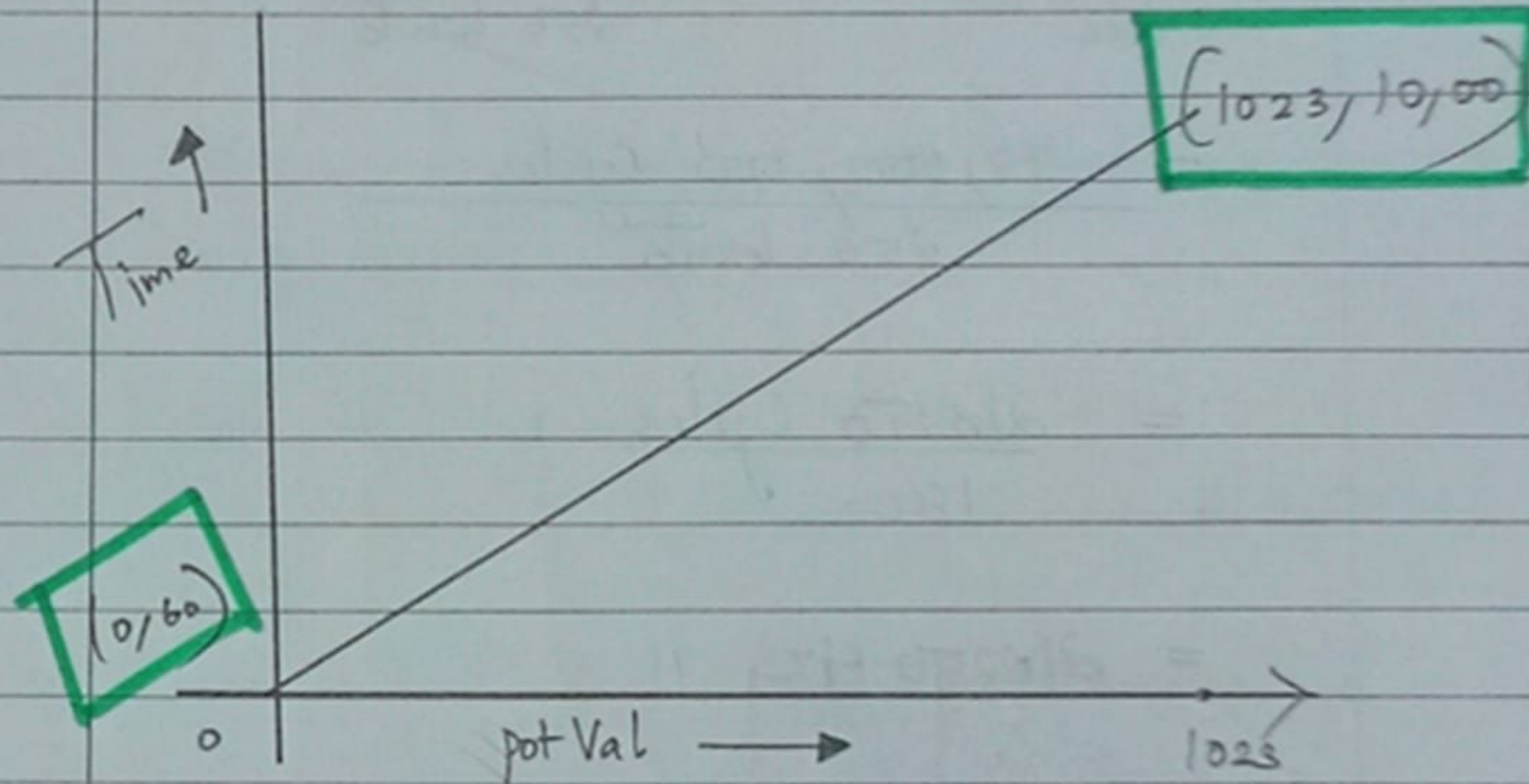


Module 24



finding the slope,

$$m = \frac{Y_2 - Y_1}{X_2 - X_1}$$

$$\begin{matrix} x_1 & y_1 \\ (0, & 60) \\ (1023, & 10,000) \\ x_2 & y_2 \end{matrix} \Rightarrow \frac{10,000 - 60}{1023 - 0}$$

$$m \Rightarrow \frac{9940}{1023}$$

$$y_2 - y_1 = m(x - x_1)$$

$$y - 60 = m(x - 0)$$

$$y - 60 = \frac{9940}{1023}(x)$$

$$y = \frac{9940}{1023}x + 60$$

$$\text{tone} = \frac{9940}{1023}x + 60$$

$$\text{tone Value} = \frac{9940}{1023} [\text{pot Value}] + 60$$