1. Determine the three SPICE parameters measured, viz., $V_A$, $\beta_o$, and $I_{SO}$ from the data taken from either the Tektronix Curve Tracer for the 2N3904 NPN BJT. Plot the output and transfer characteristics of the NPN BJTs for which the characteristics were measured in lab using the Curve Tracer using SPICE to make the plots. Compare the SPICE simulations with the plots obtained from the curve tracer.