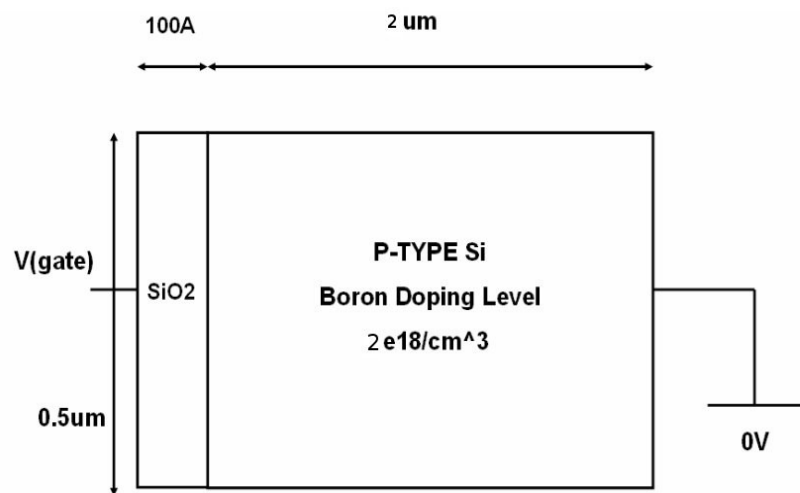


Using the graphic editor (mdraw), draw the following device.

1. After designing the mesh, run the dssis simulator for $V(\text{gate}) = -1.0\text{V}$, 0.0V , and 1.0V . Plot the electrostatic potential, the electric field, the electron density, and the hole density profiles



2. Compare your simulation results with the theory developed in the syllabus and identify the various surface charge regimes of operation.