**ME 441 Project**

**Fall 2020**

**Name:**

**Part 1, Material Properties, geometry and Boundary conditions:**

(Describe briefly the input parameters, geometry, plane stress/strain conditions, and boundary conditions, number of elements and nodes used in the two models)

**Part2, Comparison of the results:**

**2.a Results from your FEM code:**

(Here include the following contour plots obtained by your code.

* Displacement magnitudes contour
* Stress distribution in vertical direction (y)
* Stress distribution in horizontal direction (x)

Explain why your results make sense or don’t. As a point of verification, export and sum up all reaction forces at the support base in both directions and compare that with the applied load.)

**2.b Results from Abaqus Modeling or analytical solution:**

(Include the same information as section 1.b)

**3 Discussion:**

(Here describe the similarities and disparities of the two approaches. Comment on the differences observed in coarse mesh and fine mesh and which one seems to produce better results Point to things that you can add to make your results more accurate. Also, compare the normal stress distributions in x and y directions from your code with analytical solution provided. Try to use one page maximum for this section.)