LAB 3 – DESIGN

1. Get Data
   1. Ask User (int)
      1. Depth
      2. Oxygen Percentage
   2. Constant Variable (final double)
      1. Feet Per Atmosphere
      2. Maximal Partial Oxygen Percentage
      3. Contingency Partial Oxygen Percentage
2. Perform Calculation
   1. Oxygen Pressure = (Oxygen Percentage / 100) \* Ambient Pressure
      1. Ambient Pressure = (Depth / Feet Per Atmosphere) + 1
   2. Oxygen Classification
      1. A (Oxygen Pressure < 0.1)
      2. B (Oxygen Pressure < 0.2)
      3. C (Oxygen Pressure < 0.3)
      4. N (Oxygen Pressure < 1.4)
      5. O - Z (Oxygen Pressure >= 1.4)
   3. Exceeds Partial (Maximal & Contingency) Oxygen Percentages
      1. True
      2. False
3. Display Result (Create Method)
   1. Print All Calculated Results