Pseudo Code for HW1 btnCalc\_Click:

* Declare variables and constants
* Initialize blnValid to true
* Validate input
  + First name: Use TextLength property of textbox to determine number of characters in first name. Must be >=1 and <= 20. Otherwise blnValid = false.
  + Last name: Use TextLength property of textbox to determine number of characters in last name. Must be >=1 and <= 30. Otherwise blnValid = false.
  + ID number: Use tryparse to convert textbox value to integer value (call it intID). If can’t parse, then blnValid = false.
    - If intID < 1 or intID > 5000, then blnValid = false
  + Salary: Use tryparse to convert textbox value to decimal value (call it decSalary). If can’t parse, then blnValid = false.
    - If decSalary <= 20,000 or decSalary > 1,000,000 then blnValid = false
  + Rank must be selected, else blnValid = false
  + Performance must be selected, else blnValid = false
* If blnValid == true,
  + then determine bonus percentage:
    - if Rank==”low”
      * if Performance==”fair”
        + decBonusPercent = .15
      * else if Performance==”good”
        + decBonusPercent = .3
      * else
        + decBonusPercent = .5
    - else if Rank==”medium”
      * if Performance==”fair”
        + decBonusPercent = .25
      * else if Performance==”good”
        + decBonusPercent = .4
      * else
        + decBonusPercent = .65
    - else if Rank==”high”
      * + etc…
  + Now check for presence of high-seniority extra bonus:
    - If intID < 100
      * decBonusPercent += .05
  + Now calculate bonus:
    - decBonus = decSalary \* decBonusPercent
  + Now create output and display on form
* else // blnValid==false
  + display error message