**Assignment #5 Java Loop – 175 points**

**Due Date Oct 14 -accepted until Oct 16 with points off, solution posted at 12:01am on Oct 17 Nothing is accepted after the solution is posted**

**Write a program that prompts the user for data until the user wishes to stop**

**(you must have a while loop)**

(You must read in at least 8 to 10 sets of voter data using dialog boxes)

The data to read in is:

* The registration of the voter (Democrat, Republican or other)
* The gender of the voter
* The Presidential candidate the voter is choosing (**Trump or Biden**)
* Which candidate has done better to manage the economy? (**Trump or Biden**)
* Which candidate has done better to manage civil unrest? (**Trump or Biden**)
* Which candidate has done better to manage the coronavirus? (**Trump or Biden**)

You will then print the following statistics:

* Print the Candidate who won
* Total number of voters
* Total number of female voters
* Total number of male voters
* Total number of Democrats
* Total number of Republicans
* percent of female voters for **Trump**
* percent of female voters for **Biden**
* percent of male voters for **Trump**
* percent of male voters for **Biden**
* percent of Democrats voting for **Trump**
* percent of Republicans voting for **Biden**
* percent of voters thinking Trump has done better to manage the economy
* percent of voters thinking Trump has done better to manage the civil unrest
* percent of voters thinking Trump has done better to manage the coronavirus
* You must use dialog **boxes for input**, but may use System.out statements or a dialog box for output.
* You are to copy your source code and a screen print of the final program output to Word and upload the Word document to Blackboard

**Design help with this assignment:**

* Define all variables needed at the beginning of your program. You will need a variable for everything you need to track.
* Start the loop (you will have a while loop to run until the user wants to stop. You will **NOT** have a for loop)
* At the very beginning of the loop, read in **ALL data**
* Count each thing you need to count, for example, how many for Trump, how many for Biden, number of females, number of males, number of females for Trump, number of females for Biden etc… **You will have a lot of if statements in the loop**
* **End the loop**, ask the user if he wants to enter more data
* **After the loop**, do all of your calculations, percentage of males for Trump, percentage of females for Trump, etc….
* Print all required data

*You should take a very structured approach to this assignment. You should first make sure you can read in all data. Then take one requirement at a time and print that result. For example, count the number of people for Trump and the number of people for Biden and print that out. Then move on to the next requirement.*