**IT 1090C Computer Programming I   
Prof. Tom Wulf  
Ass 01 – Rock Paper Scissors  
Fall 21019-20  
20 Points**

This is your first assignment. Unlike the labs, you will complete the assignment on your own, outside of class. We may discuss aspects of the program during the class session however and you are welcome to ask about it.

Assignments are due in two weeks and have a two week grace period from the due date.

**Mini Lecture: Comparing Strings for equality**

Recall that String is an Object type in java unlike the other primitive types we have seen. (Scanner is also an Object type as us Random.)  
  
So, you **can’t** use == to test if two strings are equal. *Actually, you can’t use == with any object to test for equivalence what it actually does is test to see if the two object references refer to the same location in memory. In other words, if they are different names for the same object!*  
  
To test for equivalence with two different Strings, we use .equals() and .equalsIgnoreCase()

**if (partyAfil.equals(“R”))** // only matches uppercase R   
  
or  
  
**if(partyAfil.equalsIgnoreCase(“R”))** matches upper or lowercase R r

# Assignment:

Create an IntelliJ project file named **Ass01\_RockPaperScissors**

If you were directed to use GitHub, create a repo.

1. Code the Rock Paper Scissors program:
   1. Get a move choice from playerA which must be R, P, S or r, p, s  
      Loop until you get a valid move
   2. Get a move choice from playerB in the same manner
   3. Display the results using the accepted phrases from the game  
      Rock breaks Scissors,   
      Paper covers Rock,   
      Scissors cuts Paper  
      and indicate the winner (Player A wins) or  
      Rock vs Rock it’s a Tie! Etc…
   4. Prompt the user to play again [Y/N]
   5. Continue or terminate based on the user’s choice.

Text

Description automatically generated

Be sure to commit and push your changes if using GitHub.

1. To assist in grading the work efficiently, I will ask you to provide screen capture shots of your program runs to show that you completed the assigned work. Provide the following screen shots:  
    **INSERT THESE HERE IN THIS DOCUMENT:**  
   1. Show the looping when the user fails to enter a valid move.
   2. Show several completed games and the prompt to play again.  
        
      Note that you may be able to show all of this with one screen shot. Just make sure you establish that you correctly coded the program and tested it.
2. Submitting your work: carefully check your work.   
     
   Submit this word docx renamed **Lastname\_Firstname\_Ass\_01 Rock Paper Scissors.docx** using your name.

If you are using GitHub: submit the link to your repo.

Otherwise: create a single zip file archive called **Lastname\_Firstname\_Ass\_01 Rock Paper Scissors.zip** and include your complete IntelliJ project folder in it as well as this MS Word file with your screen shots. Use your own name of course. Submit your archive or repo link in addition to the word.docx file.