Homework 02
Rock Paper Scissors!
Due 09/29/2023 by 11:55PM

Objective:

Write a program that simulates a game of rock, paper, scissors between a human and a computer opponent in best 2 out of 3 rounds.

Requirements:

- Functionality. (80pts)
  - No Syntax, Major Run-Time, or Major Logic Errors. (80pts*)
    - *Code that cannot be compiled due to syntax errors is nonfunctional code and will receive no points for this entire section.
    - *Code that cannot be executed or tested due to major run-time or logic errors is nonfunctional code and will receive no points for this entire section.
  - Clear and Easy-To-Use Interface. (10pts)
    - Users should easily understand what the program does and how to use it.
    - Users should be prompted for input and should be able to enter data easily.
    - Users should be presented with output after major functions, operations, or calculations.
    - All the above must apply for full credit.
  - Determine the Winner of a Round. (20pts)
    - The user must select either “Rock”, “Paper”, or “Scissors”.
    - The computer opponent must randomly select either “Rock”, “Paper”, or “Scissors” each round.
    - A winner must be determined by examining the user’s input and the computer’s selection.
    - Rock vs Paper = Paper Wins.
    - Paper vs Scissors = Scissors Wins.
    - Scissors vs Rock = Rock Wins.
    - Each winner receives 1 point.
    - In the event of a tie there is no winner, and no points are awarded.
    - If the user enters an incorrect value, then the computer automatically wins that round and receives a point.
    - The results of each round must be displayed – either a winner or a tie.
    - All must apply for full credit.
  - Declare an overall Winner or a Tie. (20pts)
    - The program must determine and display an overall winner after exactly 3 rounds via their points.

        - In the event of a tie, then the program must display that the user and the computer tied.
        - All must apply for full credit.
    - Replay the Game. (20pts)
        - Once the 3 rounds have concluded, the program must ask the user if they would like to play again.
        - If the user answers yes, then the scores must be reset and the game restarts.
        - Otherwise, the program must terminate.
- Coding Style. (10pts)
    - Readable Code
        - Meaningful identifiers for data and methods.
        - Proper indentation that clearly identifies statements within the body of a class, a method, a branching statement, a loop statement, etc.
        - All the above must apply for full credit.
- Comments. (10pts)
    - Your name in the file. (5pts)
    - At least 5 meaningful comments in addition to your name. These must describe the function of the code it is near. (5pts)

Finally:
Upload the .java file to the CSCE Dropbox