

TD 4 - BONUS

Rock, Paper, Scissors

Hardware (not exhaustive) :

- 3 Arduino (UNO) (1 I2C Controller, 2 I2C Peripherals)
- 1 LCD Screen
- 7 buttons
- 2 LEDs

1. Rock Paper Scissors 👊 🖐 ✂

 **Goal:** Implement a 2 players Rock Paper Scissors game

 **Rules:**

1. The I2C Controller (Arduino) is the game controller
2. The I2C Peripherals (Arduino) are the inputs, one per player
3. The LCD Screen is wired to the game controller
4. Each Peripherals Arduino has 3 buttons, one per option (rock, paper or scissor)
5. The Game Controller has 1 button to reset the game
6. Game steps
 1. The Game Controller displays (LCD) a countdown, letting each player make a selection of what to play
 2. At the end of countdown, results are displayed on the LCD screen
 3. An LED blinks on the winning peripheral
 4. If the button on Game Controller is pressed, a new game starts (step 1)

 Call the teacher for verification once the setup is complete