Waits, Loops and Switches Worksheet

1. **Program the robot to perform the following (first, attach to your robot 2 touch sensors, name them A and B):**

   - **Stay at rest and display "Ready" on the screen.**
   - **Move left and display "Left" whenever touch sensor A is pressed.**
   - **Move right and display "Right" whenever touch sensor B is pressed.**
   - **Move forward and display "Forward" whenever both touch sensors A and B are pressed.**
   - **Stay at rest and display "Stop" when no buttons are pressed.**

   ➔ **Hint: Click on the** **icon, drag the block into the program, and select "Text" menu to from the drop-down display text on screen.**

2. **Brainstorm about possible programming solutions and write below the one that your group thinks is the best one. Write in English the various steps that are necessary.**

3. **Draw the various EV3 blocks that will be needed in the program.**

➔ **Then use the LEGO EV3 software to create your program, download and test it with the robot and sensors, revise and retest as necessary until it works as a successful solution.**

4. **Did you have to "iterate" (make changes to the program, etc.) to make it work? How many iterations did you have to perform? Explain.**