Top ten troubleshooting tips when your robot doesn't do what you expect:

1. Are you running the correct program on the NXT or EV3 brick? Could you have selected the wrong program to run?

2. Did you successfully download the most current version of the program?

3. Are the motor and sensor cables snapped completely into their sockets?

4. Are your motor cables plugged into the motor ports (A, B, C, and D if you're using EV3) that you specified in your program?

5. Are your sensor cables plugged into the sensor ports (1, 2, 3, or 4) that you specified in your program?

6. Are the cables connecting the motors and sensors to the brick out of the way of any moving parts? Use a LEGO rubber band to get them out of the way if necessary.

7. How much charge does the battery have?   If your battery is undercharged, the robot may not act as expected.

8. Are the wheels on your robot rubbing against some part of the robot or the motors? This could cause the wheels to turn inconsistently or not at all.

9. Did you line up the robot correctly?

10. Was the attachment in the right place at the start of the mission?