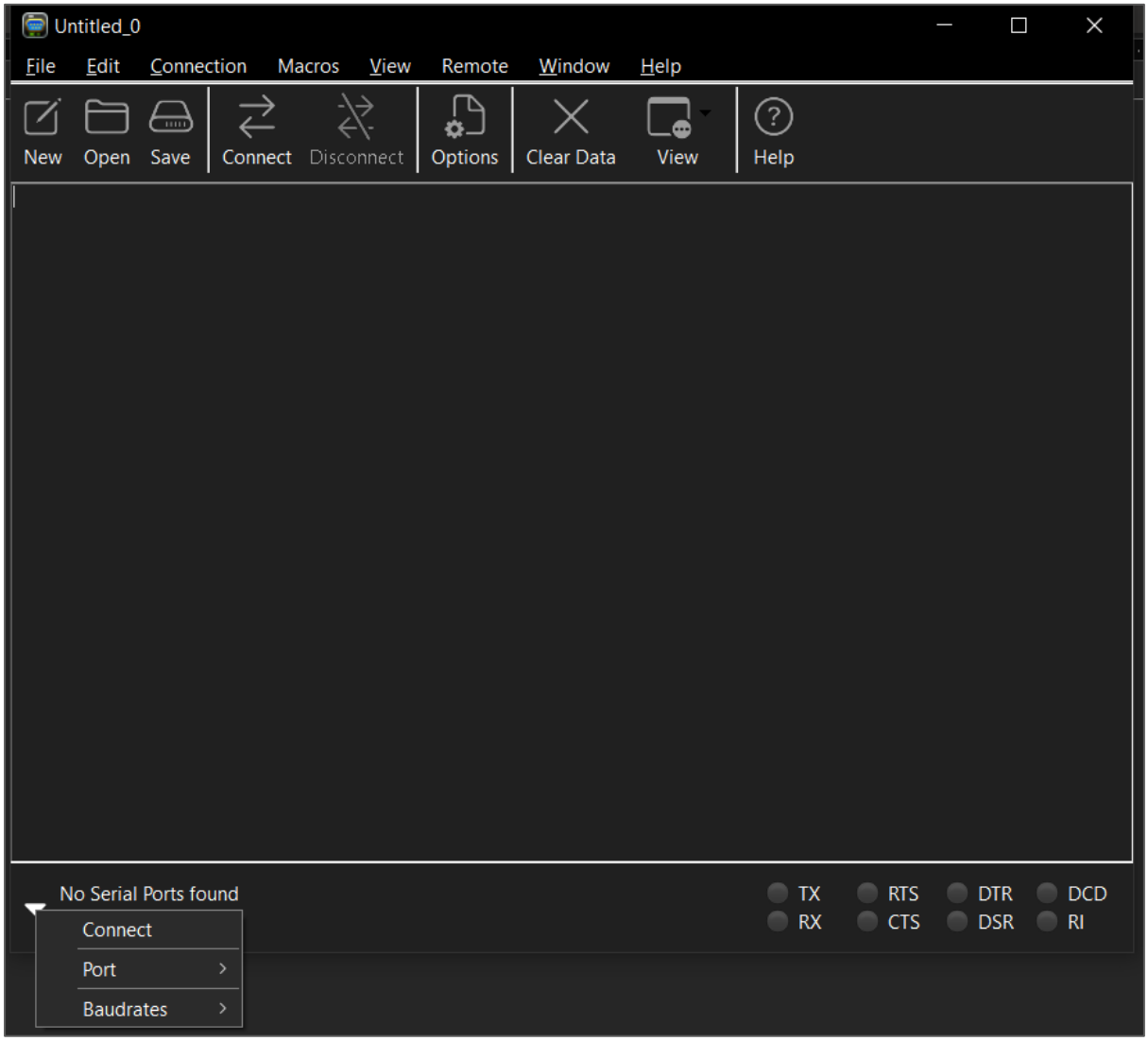
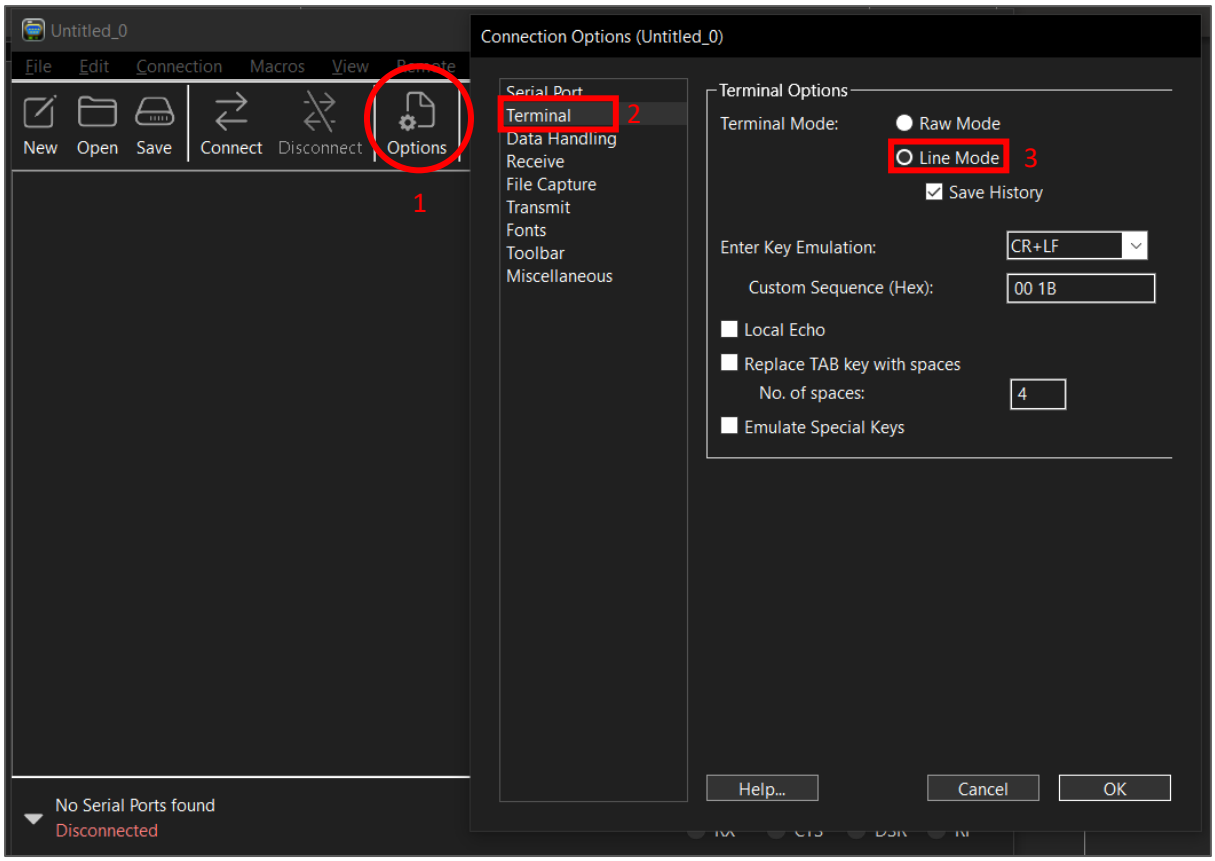
StudentKit OBC - Clicking a photo with the Serial camera

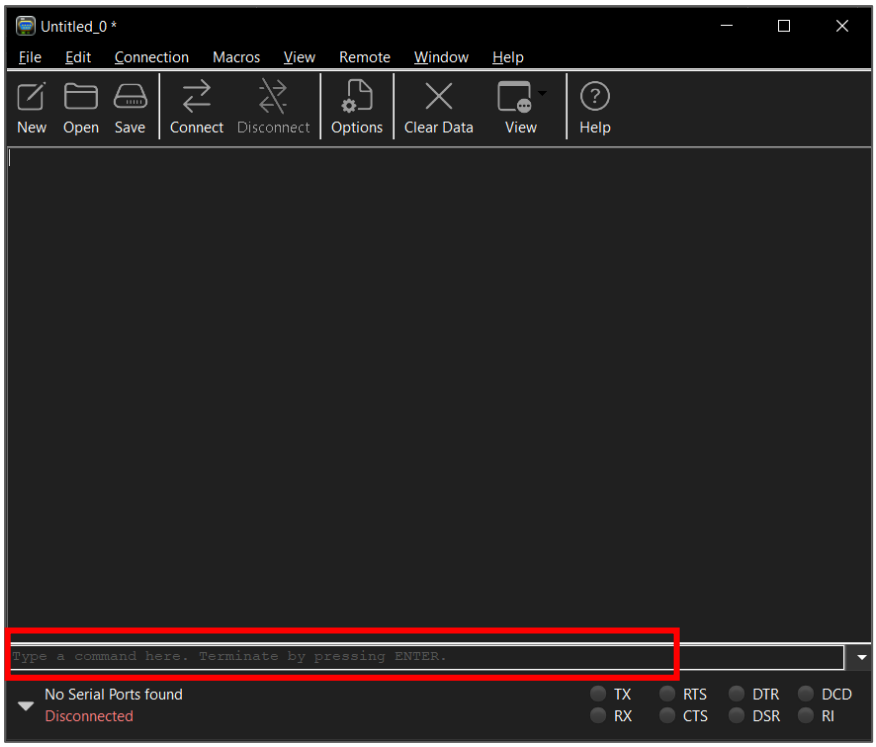
1. Connect the OBC to the PC via USB. Remember to check the wiring of the camera since it gets power from the ADCS board.
2. Open CoolTerm and make sure the correct Serial Port and baud rate (as defined in the Arduino code) are selected in the bottom left corner.



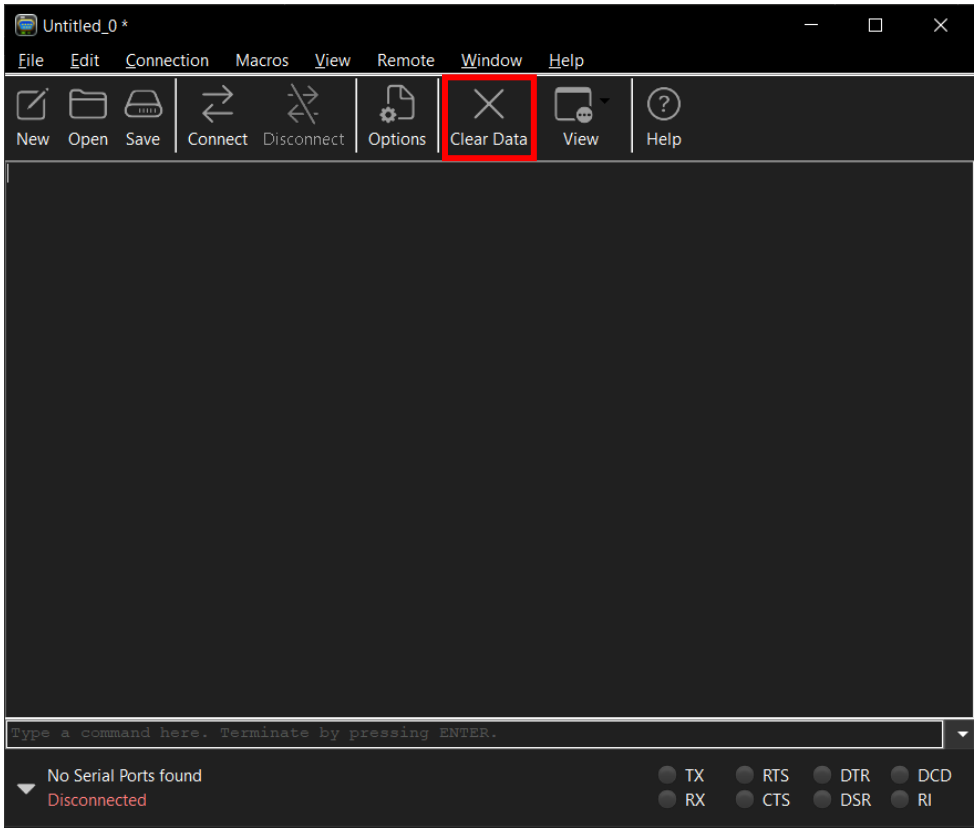
3. In the top Menu ribbon, go to Options -> Terminal -> select Line Mode -> click OK.



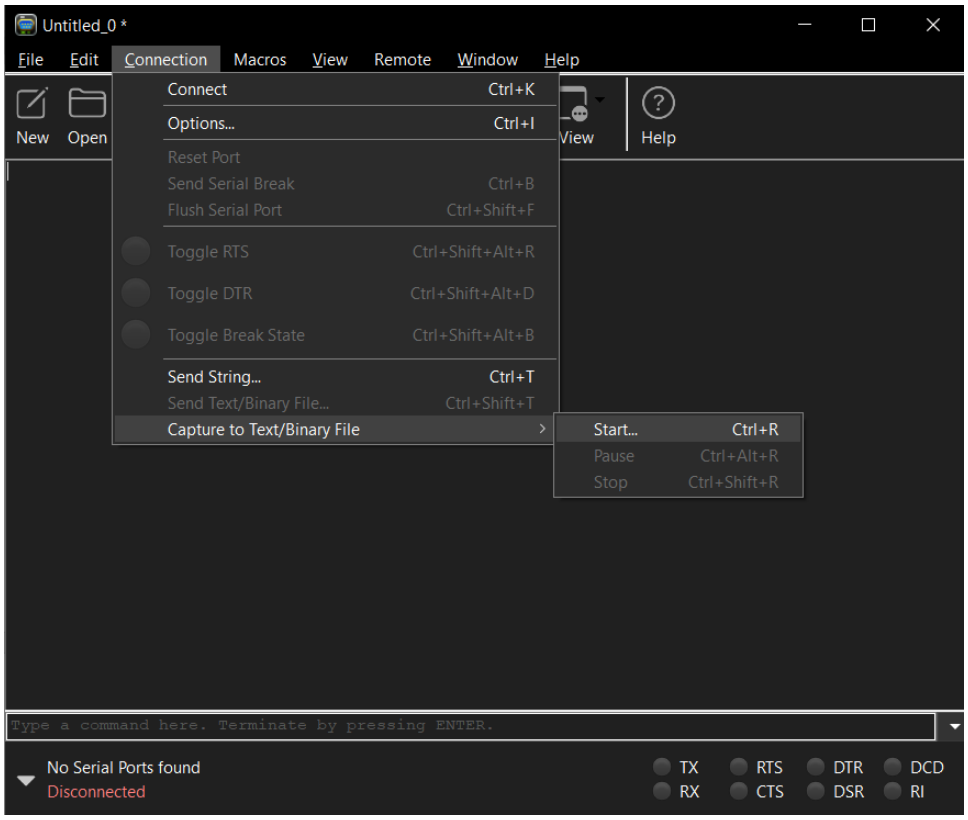
4. You should see a text box at the bottom of the window to enter commands.



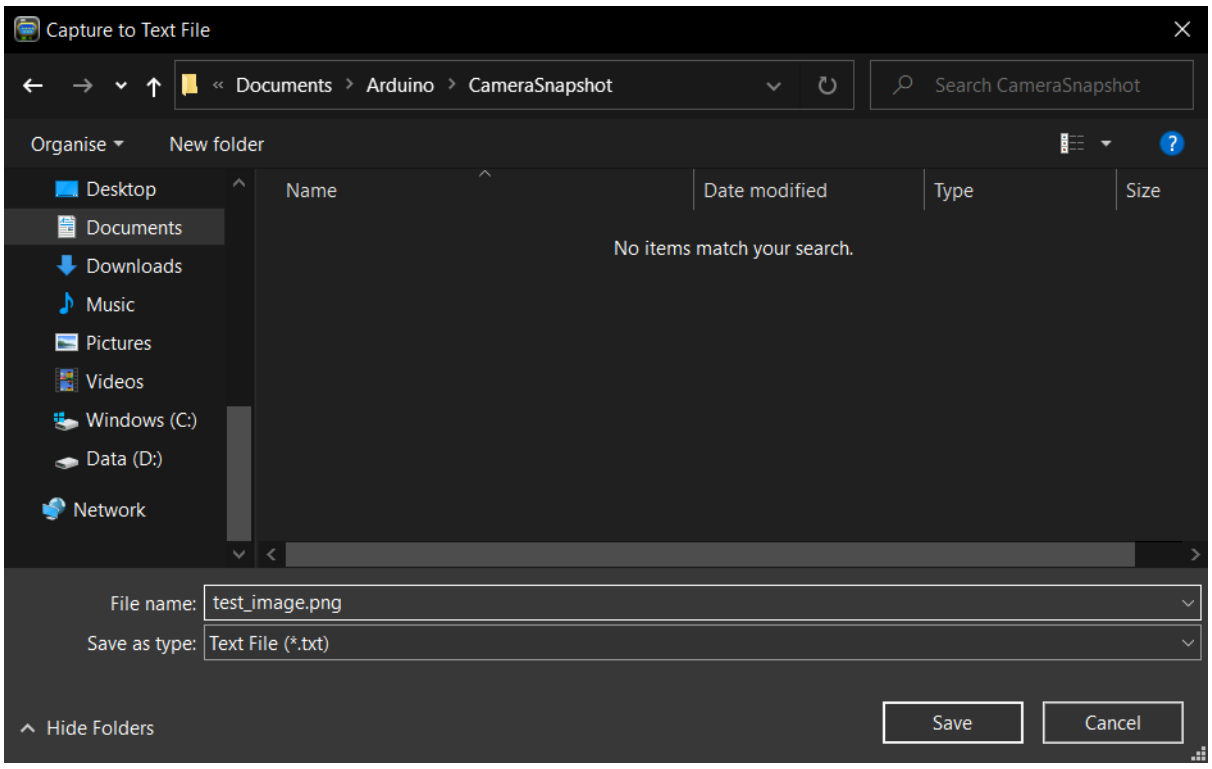
5. If the port connected successfully while plugging in the OBC, you should see some initializing messages from the OBC.
6. In order to take a picture and save it, we first need to clear the screen of all the messages present on it. To do this, click the Clear Data button.



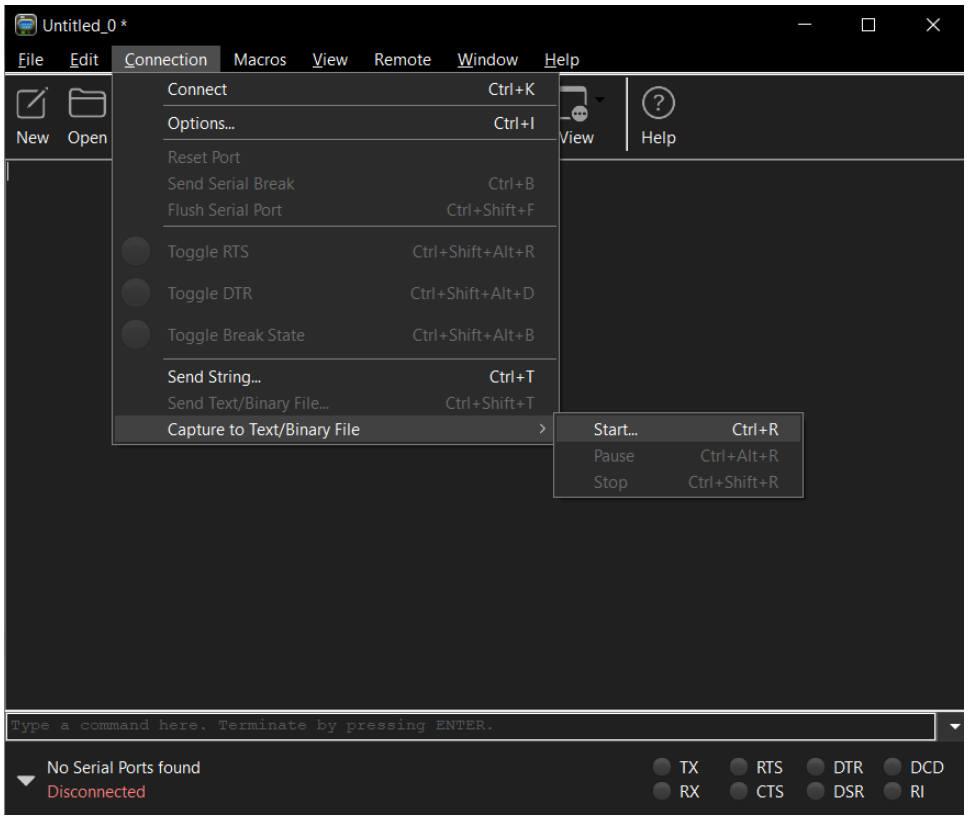
7. Now, go to Connection -> Capture to Text/Binary File -> Start



8. In the prompt to add the file name, go to an appropriate location where you want to save your image, and name it <IMAGENAME>.png and click Save.
!!!Remember to add the ".png" as the extension of the file before clicking Save!!!



9. Now, on the CoolTerm window, write CAM in the text box and click Enter. You should see a steam of data flowing in. This is the image being sent by the camera in chunks of data bytes.
10. Once the data flow has finished – this will take a few minutes – go to Connection -> Capture to Text/Binary File -> Stop.



11. If you check the location where you saved the file in Step 8, you should now see an image clicked by the camera.
12. To capture another photo, repeat steps 6 through 10.
13. Once finished, you can Disconnect the port and close CoolTerm.