**TX\_RX Library**

Because Jonny Mac’s TX\_RX Library does not allow us to use variable Pins and Baud Rates, I have modified the TX\_RX Library to so that we can use variables in the Main Program or Tasks for the TX and RX baud rates making it is possible to dynamically change the Baud Rates. Note that Labels TX\_Pin, RX\_Pin, TX\_Baud and RX\_Baud are hardcoded in the TX\_RX Library. I have attached an example of how to use variable Baud Rates as well as changing the Pin Numbers assigned to the TX\_Pin and RX\_Pin Labels. This means that you can use the same TX\_RX Library to write to many different Serial devices connected to different Pins and with different Baud Rates.

I have also written a new subroutine called TX\_DECX which is based on the standard TX\_DEC, except the new subroutine allows you to specify the number of digits that you want to display, especially useful for something like LCDs where you want a fixed number of digits displayed. TX\_DECX will pad with leading zeroes if necessary, but take note, it will truncate leading digits if the number is larger than the number of digits to display