The HM – 10 is a BLE module that allows the STM32 to connect to other BLEs. The BLE module services that allow the defining of their functional capabilities and roles are controlled or called using AT Commands that are sent to the HM – 10. The HM-10 will have a unique service profile that is a collection of services. The HM-10 can run at very high speeds of 32 MHz, allowing both Slave and Master roles, ability to send 20-bit character words ie. Hello would be 5 characters and can be put in sleep mode when not in use where it consumes much less power. Slave will mean that it will respond to master’s commands immediately and will have to process information at the same transmitter and receiver frequency as master so maintain a safe data exchange. The Master will initiate the connection using an AT command and the slave’s address and will decide when the slave will respond to commands ie. when to sleep or be active. It also means that the slave BLE will be able to be connected to by that master only. The HM-10’s ability to act as slave allows the buggy to be controlled from another BLE, our phones, that will be master to send a command to be processed by software of the STM32. The HM – 10 uses 32-bit commands that are sent to the module by software serially through a UART strip and the software can then control the module using SoftSerial.h. The UART connections between the STM32 are CN6 3.3 V to VCC, CN6 GND to GND, PA\_2 to TX and PA\_3 to RX.