|  |
| --- |
| *while (1)*  *{*  *// Check for firmware update command*  *if (CheckForUpdateCommand())*  *{*  *// Erase old firmware from memory*  *EraseFirmware();*  *// Receive new firmware over UART*  *ReceiveFirmwareOverUART();*  *// Verify the firmware*  *if (VerifyFirmware()) {*  *// If firmware is verified, jump to new firmware*  *JumpToNewFirmware();*  *} else {*  *// If firmware is not verified, stay in the bootloader*  *SendErrorOverUART("Firmware verification failed");*  *}*  *}*  *}* |

Pseudo Code 2: Firmware update