NFC Labwork Task 1

1. Setup the hardware and the library by following the NFC Lab Work Tutorial
2. Create the Arduino Code with the file name: NFC\_WinSe2021\_MatriculationNr
3. Read the whole 64 block (16 Sectors) data of the RFID Card or RFID Key and show it on the serial monitor. The result should be like the example below:

[--------------------------Start of Memory Dump--------------------------]

------------------------Sector 0-------------------------

Block 0 8E 02 6F 66 85 08 04 00 62 63 64 65 66 67 68 69

Block 1 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

Block 2 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

Block 3 00 00 00 00 00 00 FF 07 80 69 FF FF FF FF FF FF

------------------------Sector 1-------------------------

Block 4 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

Block 5 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

Block 6 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

Block 7 00 00 00 00 00 00 FF 07 80 69 FF FF FF FF FF FF

------------------------Sector 2-------------------------

Block 8 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

Block 9 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

Block 10 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

Block 11 00 00 00 00 00 00 FF 07 80 69 FF FF FF FF FF FF

------------------------Sector 3-------------------------

Block 12 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

Block 13 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

Block 14 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

Block 15 00 00 00 00 00 00 FF 07 80 69 FF FF FF FF FF FF

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and so on………………………………………………………………………

[---------------------------End of Memory Dump---------------------------]

1. Inspect the location of the Sector Trailer
2. Create a report with consist of the detail below:

* The hardware block diagram
* The hardware setup picture
* The flowchart
* The code including the explanation
* The result picture of the point 2 and point 3 above.

1. Send the report and the code before the next Labor Class