

## Workshop task: Wireless Bluetooth and UART communication

*Supported by project IP 2021 FBMI ČVUT*

**Aim of this workshop task is to get familiar with bluetooth communication and with communication through UART terminal.**

**This workshop task is designed for Android devices. (Apple devices will probably work as well, but were not tested.)**

1. Get familiar with ASCII table.
2. Get familiar with demo-device 'Bluetooth display-terminal'.
3. Pair the demo-device with your smartphone. Carefully check device name and PIN so that you connect to your device, not to your neighbours's :) .
4. Download and install an app which allows Bluetooth/UART communication, for example: 'Serial Bluetooth Terminal'.
5. Open appropriate port in BT terminal.
6. Try sending some text information through the terminal.
  1. Get familiar with terminal settings and controls.
  2. Try to send a message by using standard text.
  3. Try to send a message by using ASCII value of the characters.
7. Turn on portable BT printer, pair it with your smartphone. Carefully check device name and PIN so that you connect to your device, not to your neighbours's :) .
8. Open appropriate port in BT terminal.
9. Try sending some ASCII text to the printer (via virtual UART).
10. Try setting print options by use of ESC/POS control sequences.
11. Tidy up your workplace.

**Tasks/Questionnaire :-): PLEASE ANSWER IN BRIEF!!!**

***Encode your name using ASCII:***

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***What is the use of special characters '<CR>', '<LF>'?***

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NAME, SURNAME, GROUP, DATE:
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