# Instruction to run the code

1. Install Pycharm <https://www.jetbrains.com/pycharm/download/#section=windows>
2. Download feelspace github code <https://github.com/feelSpace/pybelt>
3. Open the download folder pybelt\_main, click folder examples
4. You will see the same files in folder “examples” as in the picture below

A screenshot of a computer

Description automatically generated

1. Save code of “Localization\_16 trials”, “joytick”, “timer\_joystick\_3” into folder “examples”
2. Open the file that you want using Pycharm
3. Install all libraries or python package in Pycharm
4. Connect the feelspace device to computer
5. Turn on the device (push on button for 2 seconds). One of vibromotor will vibrate after you turn on the device
6. Run the program in Pycharm by clicking the green arrow on the right side

A screenshot of a computer

Description automatically generated

1. If you haven’t installed the library, an error will be shown as in the picture below

A screenshot of a computer

Description automatically generated

1. If there is no error, the program will run to connect with the feelspace device. There will be question about how to connect the device with the computer ("Connect via Bluetooth or USB? [b,u]")
2. Choose u
3. Feelspace device is connected to the computer and you can do the experiment.

# Original code from feelSpace (license)

Belt\_battery\_level : to check battery level of feelSpace vibromotors

Belt\_mode: Several modes for feelSpace belt

Belt\_orientation: Orientation for feelSpace belt

Classicbelt: for feelSpace belt

Connect: code for connecting feelSpace vibromotors with computer

Pulse\_command: vibration motors give pulse vibration

Pybelltest: Test feelSpace belt

Scan\_ble: scan feelSpace belt via Bluetooth

Simultaneous\_connection: connection for feelSpace belt

Vibration\_command: basic command for vibromotors vibration

# Code for experiments:

Localization\_16 trials: For vibromotors localization experiment

Voice\_command: For the experiments using voice command

Joystick: Controlling vibromotors using arrow in the keyboard

Timer\_joystick\_3 : Controlling vibromotors using arrow in the keyboard with timer (start and stop)

Don’t forget to install these libraries:

Install time - (pip install times) (<https://pypi.org/project/times/>)

Install keyboard - (pip install keyboard) (<https://pypi.org/project/keyboard/>)