

SOFTWARE

Software:

- Install the Python IDLE.
- Install the required python libraries:

Install Watson IoT Python SDK to integrate Cloud services, capture the data from the camera, and process the data stored in QR code using the python code. Install the above libraries using the commands listed below one after the other in the command prompt.

pip install wiotp-sdk

```
Microsoft Windows [Version 10.0.19044.2251]
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C:\Users\Acer>pip install wiotp-sdk
Collecting wiotp-sdk
  Downloading wiotp-sdk-0.11.0.tar.gz (96 kB)
    ----- 96.2/96.2 kB 343.0 kB/s eta 0:00:00
  Preparing metadata (setup.py) ... done
Collecting iso8601>=0.1.12
  Downloading iso8601-1.1.0-py3-none-any.whl (9.9 kB)
Requirement already satisfied: pytz>=2018.9 in c:\python39\lib\site-packages (from wiotp-sdk) (2022.5)
Collecting pyyaml>=3.13
  Downloading PyYAML-6.0-cp39-cp39-win_amd64.whl (151 kB)
    ----- 151.0/151.0 kB 302.0 kB/s eta 0:00:00
Collecting paho-mqtt>=1.5.0
  Downloading paho-mqtt-1.6.1.tar.gz (99 kB)
    ----- 99.4/99.4 kB 330.4 kB/s eta 0:00:00
  Preparing metadata (setup.py) ... done
Requirement already satisfied: requests>=2.21.0 in c:\python39\lib\site-packages (from wiotp-sdk) (2.28.1)
Collecting requests_toolbelt>=0.8.0
  Downloading requests_toolbelt-0.10.1-py2.py3-none-any.whl (54 kB)
    ----- 54.5/54.5 kB 283.9 kB/s eta 0:00:00
Requirement already satisfied: certifi>=2017.4.17 in c:\python39\lib\site-packages (from requests>=2.21.0->wiotp-sdk) (2022.9.24)
Requirement already satisfied: urllib3>=1.27,<=1.21.1 in c:\python39\lib\site-packages (from requests>=2.21.0->wiotp-sdk) (1.26.12)
Requirement already satisfied: charset-normalizer<3,>=2 in c:\python39\lib\site-packages (from requests>=2.21.0->wiotp-sdk) (2.1.1)
Requirement already satisfied: idna<4,>=2.5 in c:\python39\lib\site-packages (from requests>=2.21.0->wiotp-sdk) (3.4)
Installing collected packages: paho-mqtt, pyyaml, iso8601, requests_toolbelt, wiotp-sdk
  DEPRECATION: paho-mqtt is being installed using the legacy 'setup.py install' method, because it does not have a 'pyproject.toml' and the 'wheel' package is not installed. pip 23.1 will enforce this behaviour change. A possible replacement is to enable the '--use-pep517' option. Discussion can be found at https://github.com/pypa/pip/issues/8559
  Running setup.py install for paho-mqtt ... done
  DEPRECATION: wiotp-sdk is being installed using the legacy 'setup.py install' method, because it does not have a 'pyproject.toml' and the 'wheel' package is not installed. pip 23.1 will enforce this behaviour change. A possible replacement is to enable the '--use-pep517' option. Discussion can be found at https://github.com/pypa/pip/issues/8559
  Running setup.py install for wiotp-sdk ... done
Successfully installed iso8601-1.1.0 paho-mqtt-1.6.1 pyyaml-6.0 requests_toolbelt-0.10.1 wiotp-sdk-0.11.0

[notice] A new release of pip available: 22.1 -> 22.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip

C:\Users\Acer>
```