Software-Latest version of python

Python IDE:

Python integrated development environments, or Python IDEs, are software platforms that provide programmers and developers with a comprehensive set of tools for software development in a single product, specifically in the Python programming language.

IDE stands for Integrated Development Environment. It's a coding tool which allows you to write, test, and debug your code in an easier way, as they typically offer code completion or code insight by highlighting, resource management, debugging tools.

Install and setup the Python IDE

```
Processing triggers for gnome-menus (3.36.0-1ubuntu3) ...
Processing triggers for libc-bin (2.36-0ubuntu4) ...
Processing triggers for man-db (2.10.2-2) ...
Processing triggers for mailcap (3.70+nmu1ubuntu1) ...
sp@GIPSY:~$ python3
Python 3.10.7 (main, Nov  2 2022, 18:49:29) [GCC 12.2.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> print("Industry Specific Intelligent Fire Management System")
Industry Specific Intelligent Fire Management System
>>>
```

WATSON IOT PYTHON SDK INSTALLATION:

```
sp@GIPSY:~/Documents$ cd
sp@GIPSY:~$ pip install wiotp-sdk
Defaulting to user installation because normal site-packages is not writeable
Collecting wiotp-sdk
  Downloading wiotp-sdk-0.11.0.tar.gz (96 kB)
                                    96.2/96.2 kB 303.6 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)
Collecting paho-mqtt>=1.5.0
  Downloading paho-mqtt-1.6.1.tar.gz (99 kB)
                                    99.4/99.4 kB 436.9 kB/s eta 0:00:00
  Preparing metadata (setup.py) ... done
Collecting pytz>=2018.9
  Downloading pytz-2022.6-py2.py3-none-any.whl (498 kB)
                                    498.1/498.1 kB 952.4 kB/s eta 0:00:00
Requirement already satisfied: pyyaml>=3.13 in /usr/lib/python3/dist-packages (from wiotp-sdk) (5.4.1)
Requirement already satisfied: requests>=2.21.0 in ./.local/lib/python3.10/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 1.3 MB/s eta 0:00:00
Requirement already satisfied: idna<4,>=2.5 in ./.local/lib/python3.10/site-packages (from requests>=2.21.0->wiotp-sdk) (3.4)
Requirement already satisfied: charset-normalizer<3,>=2 in ./.local/lib/python3.10/site-packages (from requests>=2.21.0->wiotp-sdk) (2.1.1)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in /usr/lib/python3/dist-packages (from requests>=2.21.0->wiotp-sdk) (1.26.9)
Requirement already satisfied: certifi>=2017.4.17 in ./.local/lib/python3.10/site-packages (from requests>=2.21.0->wiotp-sdk) (2022.9.24)
Building wheels for collected packages: wiotp-sdk, paho-mqtt
  Building wheel for wiotp-sdk (setup.py) ... done
  Created wheel for wiotp-sdk: filename=wiotp_sdk-0.11.0-py3-none-any.whl size=97223 sha256=895a55457055f68bafefc3c823e14252b9f13b60e15f140a695d731159
054134
  Stored in directory: /home/sp/.cache/pip/wheels/5a/87/ce/cbdf2a67e5a5a2653030657e10db79c94582e47b31a5b98c2d
  Building wheel for paho-mqtt (setup.py) ... done
  Created wheel for paho-mqtt: filename=paho_mqtt-1.6.1-py3-none-any.whl size=62133 sha256=b79cfbac3aafc349d2949a819c4b4c3d9ec09c8f1abd9612ad6a25beb59
dcc13
  Stored in directory: /home/sp/.cache/pip/wheels/8b/bb/0c/79444d1dee20324d442856979b5b519b48828b0bd3d05df84a
Successfully built wiotp-sdk paho-mqtt
Installing collected packages: pytz, paho-mqtt, iso8601, requests_toolbelt, wiotp-sdk
Successfully installed iso8601-1.1.0 paho-mqtt-1.6.1 pytz-2022.6 requests_toolbelt-0.10.1 wiotp-sdk-0.11.0
```