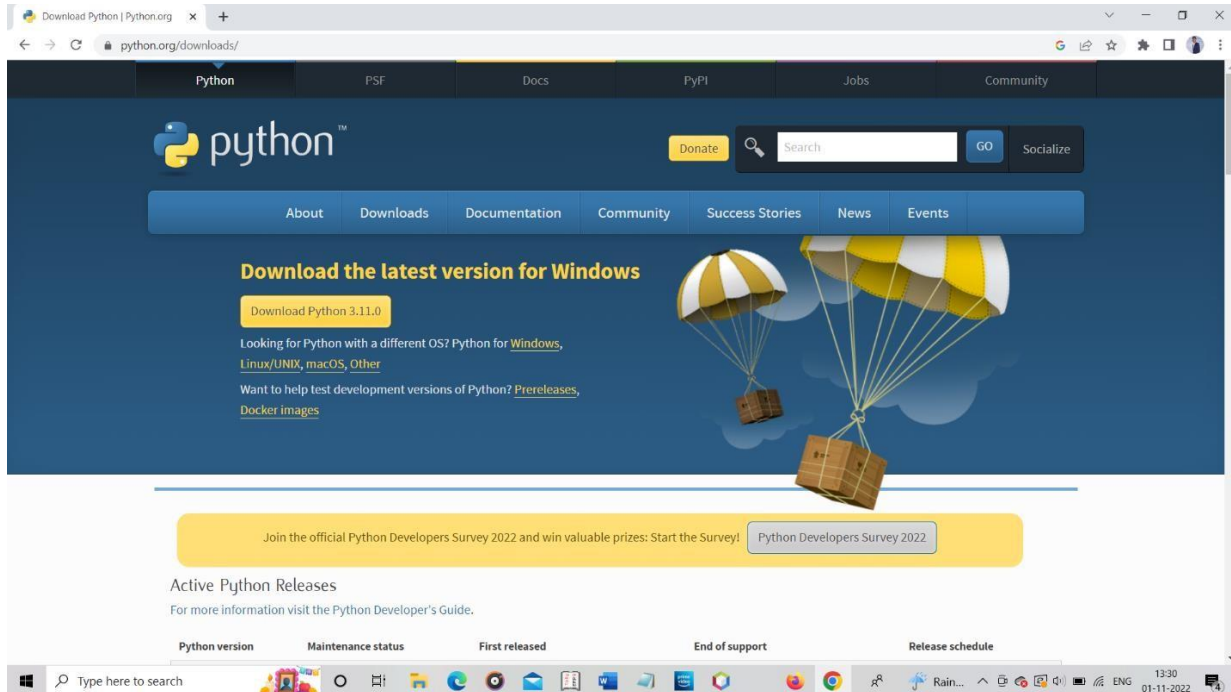# PYTHON SOFTWARE

Date	19 September 2022
Team ID	IBM-Project-PNT2022TMID43472
Project Name	IoT Based Safety Gadget for Child Safety Monitoring & Notification

STEP-1

STEP-2

Release version	Release date		Click for more
3.9	security	2020-10-05	2025-10 PEP 596
3.8	security	2019-10-14	2024-10 PEP 569
3.7	security	2018-06-27	2023-06-27 PEP 537

Looking for a specific release?
Python releases by version number:

Release version	Release date		Click for more
Python 3.8.15	Oct. 11, 2022	Download	Release Notes
Python 3.10.8	Oct. 11, 2022	Download	Release Notes
Python 3.7.15	Oct. 11, 2022	Download	Release Notes
Python 3.7.14	Sept. 6, 2022	Download	Release Notes
Python 3.8.14	Sept. 6, 2022	Download	Release Notes
Python 3.9.14	Sept. 6, 2022	Download	Release Notes
Python 3.10.7	Sept. 6, 2022	Download	Release Notes

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STEP-3

Python 3.7.14

Release Date: Sept. 6, 2022

Note: The release you are looking at is **Python 3.7.14**, a **security bugfix release** for the legacy **3.7** series which is now in the **security fix** phase of its life cycle. See the downloads page for currently supported versions of Python and for the most recent source-only **security fix** release for 3.7. The final **bugfix release** with binary installers for 3.7 was 3.7.9.

Please see the Full Changelog link for more information about the contents of this release and see What's New In Python 3.7 for more information about 3.7 features.
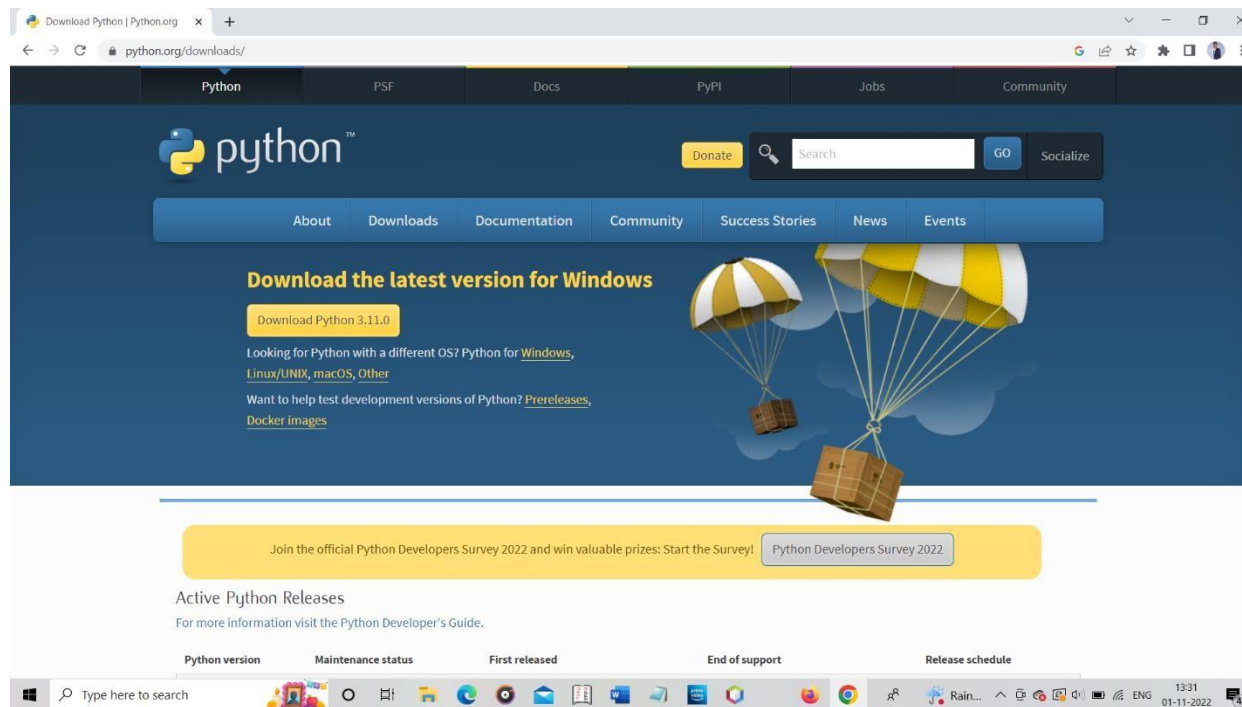
Security content in this release

- CVE-2020-10735: converting between int and str in bases other than 2 (binary), 4, 8 (octal), 16 (hexadecimal), or 32 such as base 10 (decimal) now raises a ValueError if the number of digits in string form is above a limit to avoid potential denial of service attacks due to the algorithmic complexity.
- gh-87389: http.server: Fix an open redirection vulnerability in the HTTP server when an URI path starts with //.
- gh-93065: Fix contextvars HAMT implementation to handle iteration over deep trees to avoid a potential crash of the interpreter.
- gh-80254: Raise ProgrammingError instead of segfaulting on recursive usage of cursors in sqlite3 converters.

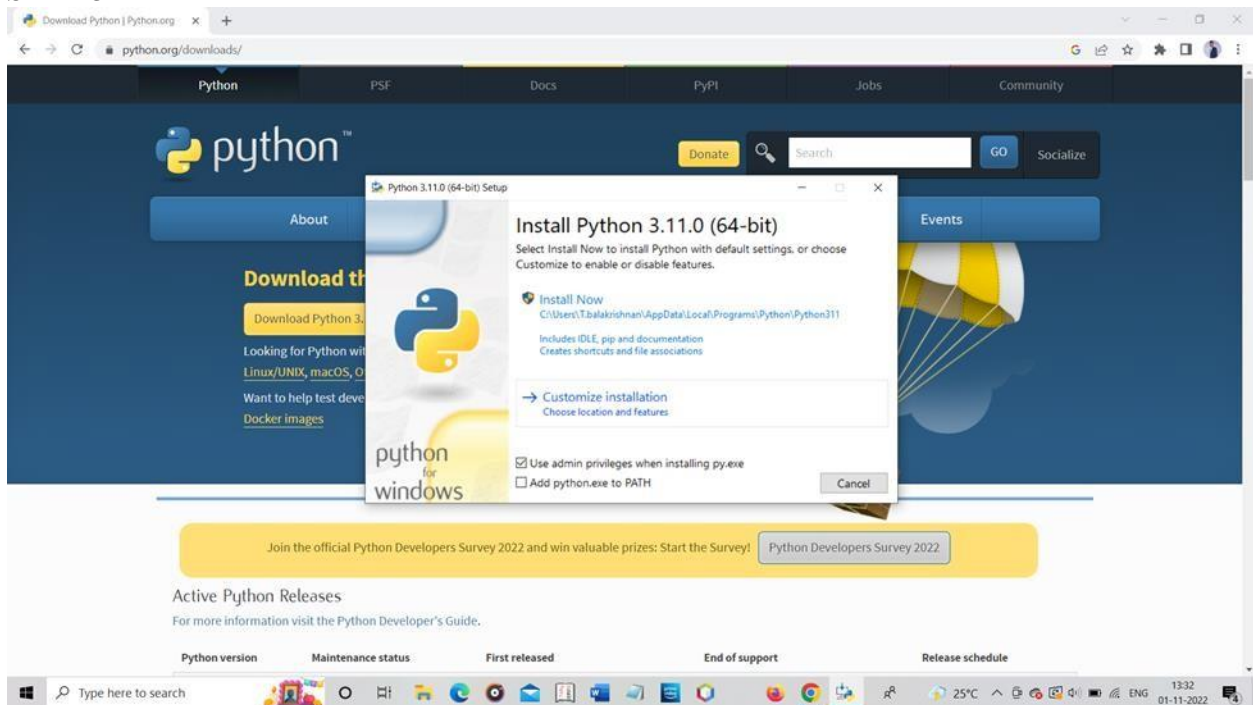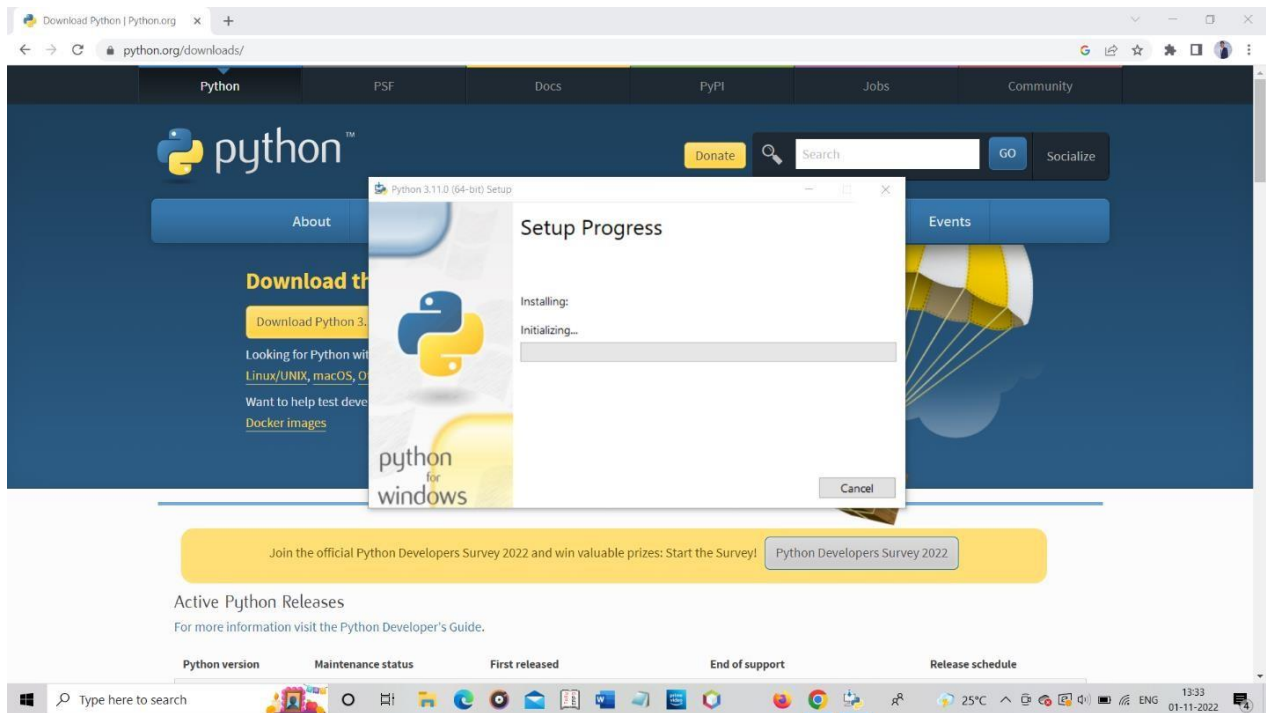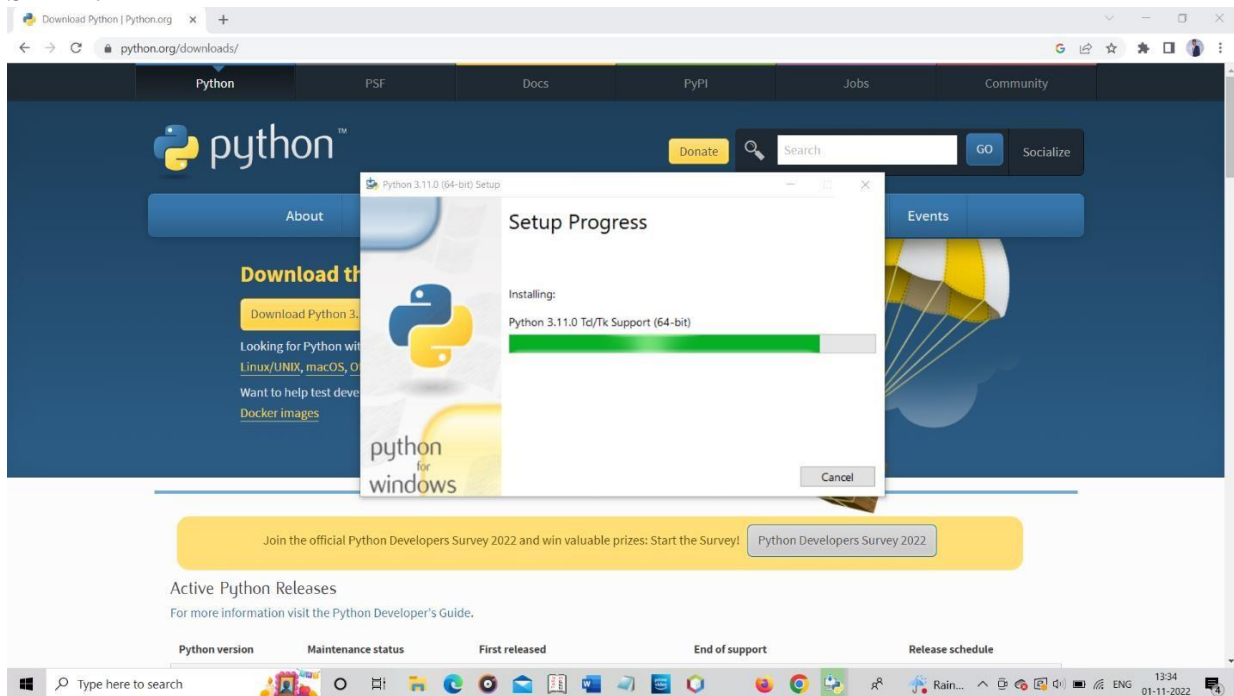### More resources

- Online Documentation

STEP-4
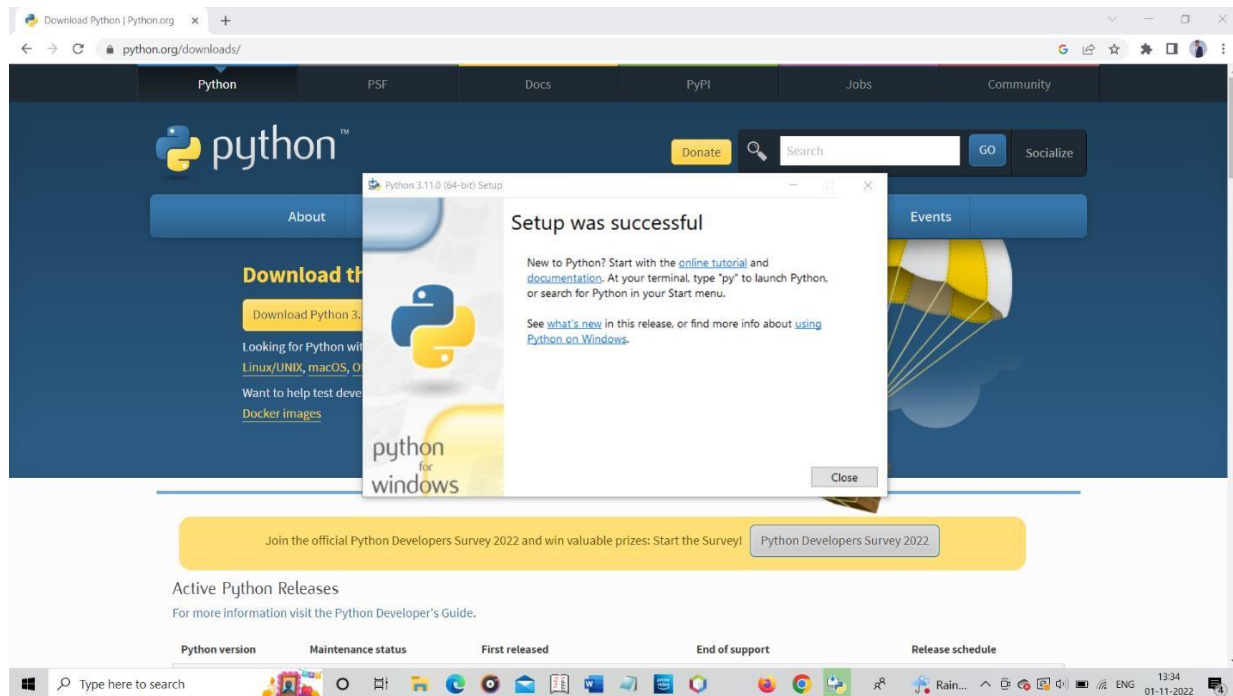

STEP-5

STEP-6

STEP-7

STEP-8

PYTHON CODE:
```python
import json
import wiotp.sdk.device
import time
myConfig = {
    "identity":{
        "orgId": "hj5fmy",
        "typeId": "NodeMCU",
        "deviceId":"12345"
},
"auth": {
"token": "12345678"
}
}
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client. connect ()
while True:
name ="smart bridge"
 #in area location
 #latitude=17.4219272
#longitude=78.5488783
#out area location
 latitude=17.4219272
longitude=78.5488783 myData= {'name':name,'lat': latitude, 'log': longitude}
client. publish Event (event ID="status", msgFormat="json",
 data=myData, qos=0, on publish=None)
print ("Data published to IBM IOT platform: "myData)
time. Sleep (5)
```

STEP-8

client. disconnect ()

```
Python 3.9.7 (tags/v3.9.7:1016ef3, Aug 30 2021, 20:19:38) [MSC v.1929 64 bit (AM
D64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
================= RESTART: C:/Users/User/Downloads/trypython.py =================
Type a number: 5
Type another number: 8
The sum is:   13
>>>
```