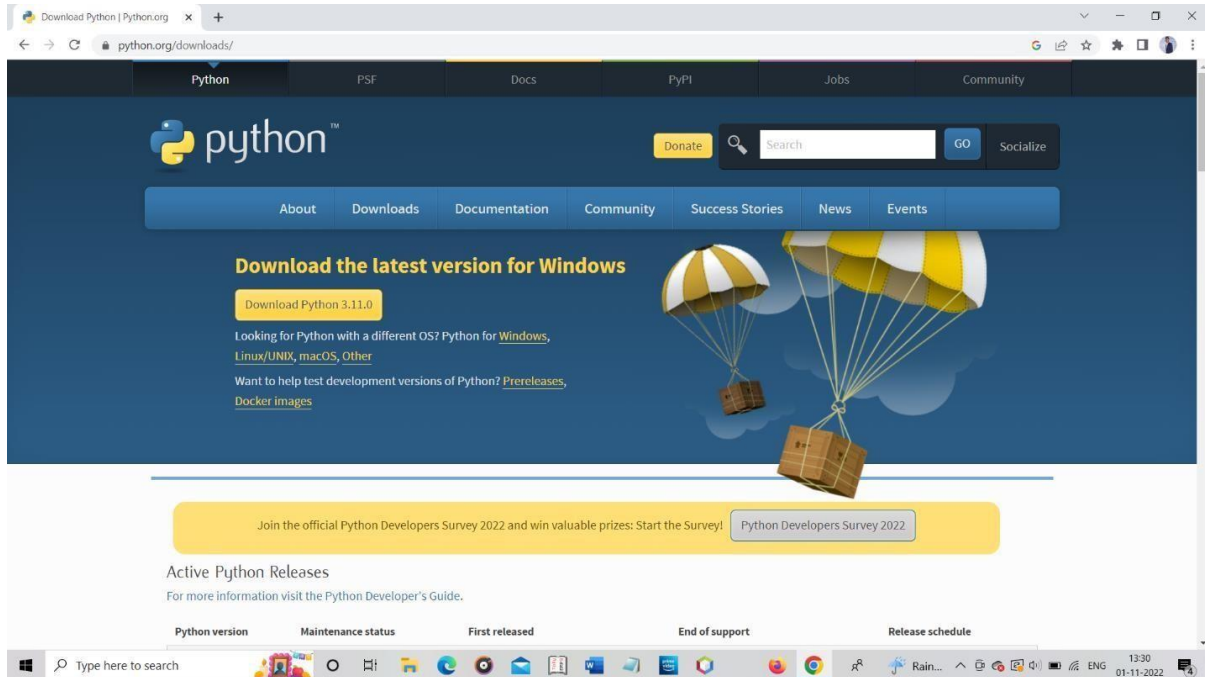


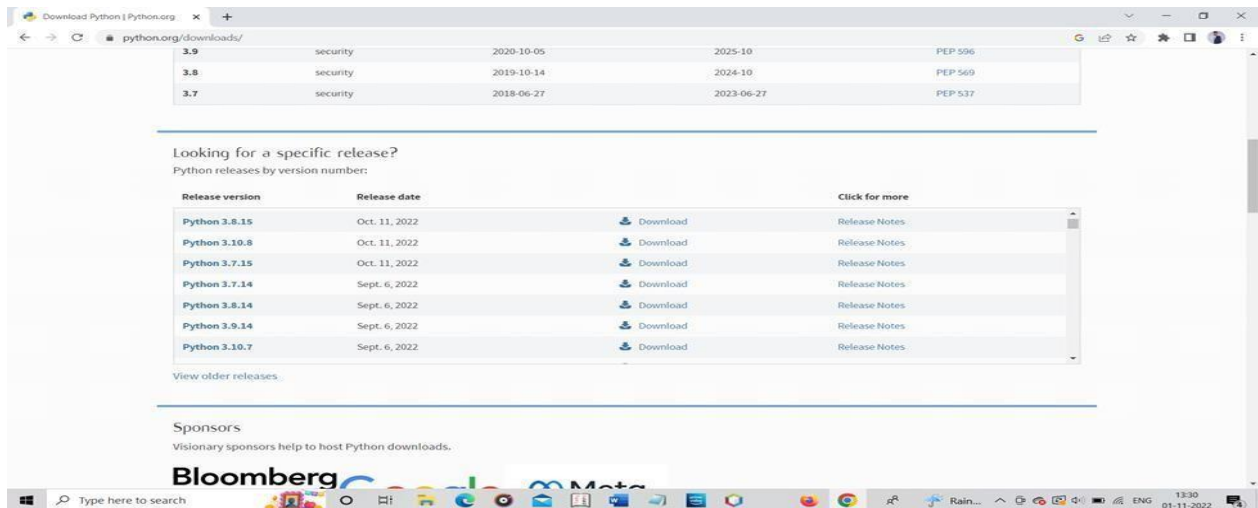
## PYTHON SOFTWARE

<u>Date</u>	<u>19 November 2022</u>
<u>Team ID</u>	<u>IBM-Project-PNT2022TMID44690</u>
<u>Project Name</u>	<u>IoT Based Safety Gadget for Child Safety Monitoring &amp; Notification</u>

### STEP-1



## STEP-2



The screenshot shows the Python.org website's download page. At the top, there's a table with columns for version, security status, release date, and PEP number. Below this, a section titled "Looking for a specific release?" lists Python releases by version number, including Python 3.8.15, 3.10.8, 3.7.15, 3.7.14, 3.8.14, 3.9.14, and 3.10.7. Each entry has a "Download" link and a "Release Notes" link. The page also features a "Sponsors" section with the text "Visionary sponsors help to host Python downloads." and a list of sponsors including Bloomberg and Meta.

Version	Security	Release date	PEP
3.9	security	2020-10-05	2025-10
3.8	security	2019-10-14	2024-10
3.7	security	2018-06-27	2023-06-27

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

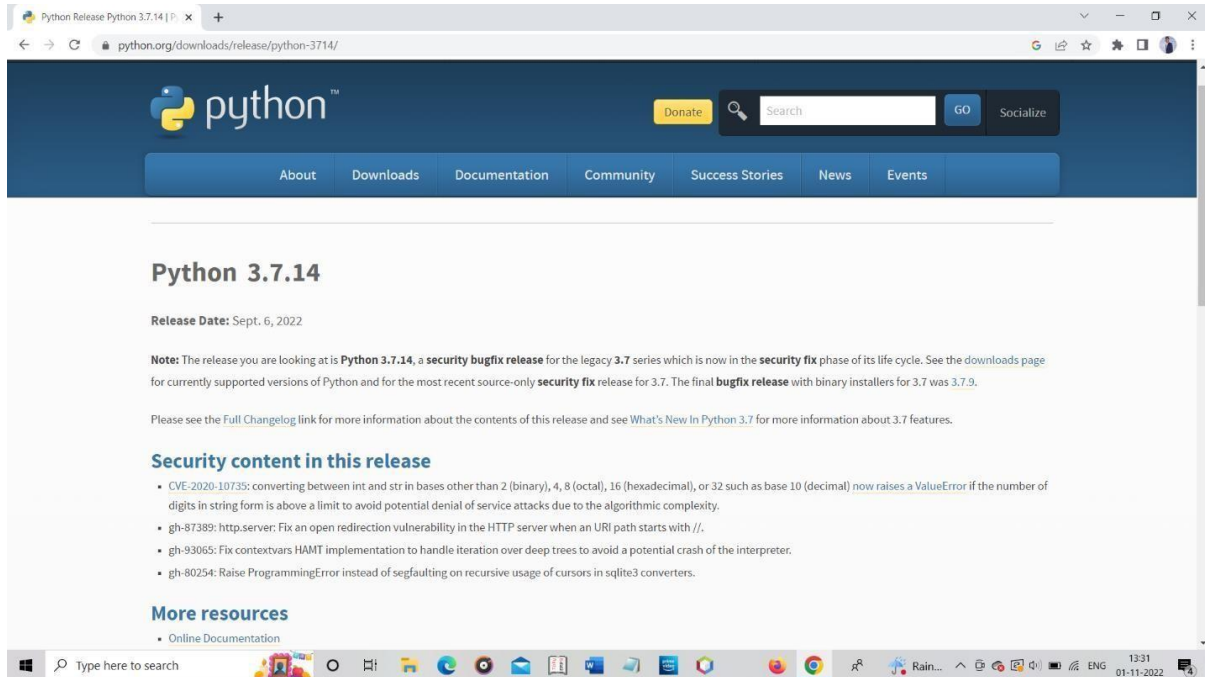
Release version	Release date	Download	Click for more
Python 3.8.15	Oct. 11, 2022	Download	Release Notes
Python 3.10.8	Oct. 11, 2022	Download	Release Notes
Python 3.7.15	Oct. 11, 2022	Download	Release Notes
Python 3.7.14	Sept. 6, 2022	Download	Release Notes
Python 3.8.14	Sept. 6, 2022	Download	Release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

[View older releases](#)

**Sponsors**  
Visionary sponsors help to host Python downloads.

Bloomberg, Meta

## STEP-3



The screenshot shows the Python.org website's release page for Python 3.7.14. The page features the Python logo, a "Donate" button, a search bar, and a "Socialize" button. Below the header, there's a navigation menu with links to "About", "Downloads", "Documentation", "Community", "Success Stories", "News", and "Events". The main content area is titled "Python 3.7.14" and includes the "Release Date: Sept. 6, 2022". A "Note" section explains that this is a security bugfix release for the legacy 3.7 series. A "Security content in this release" section lists several CVEs and GitHub issues. The page also includes a "More resources" section with a link to "Online Documentation".

python™

Donate Search GO Socialize

About Downloads Documentation Community Success Stories News Events

### 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.

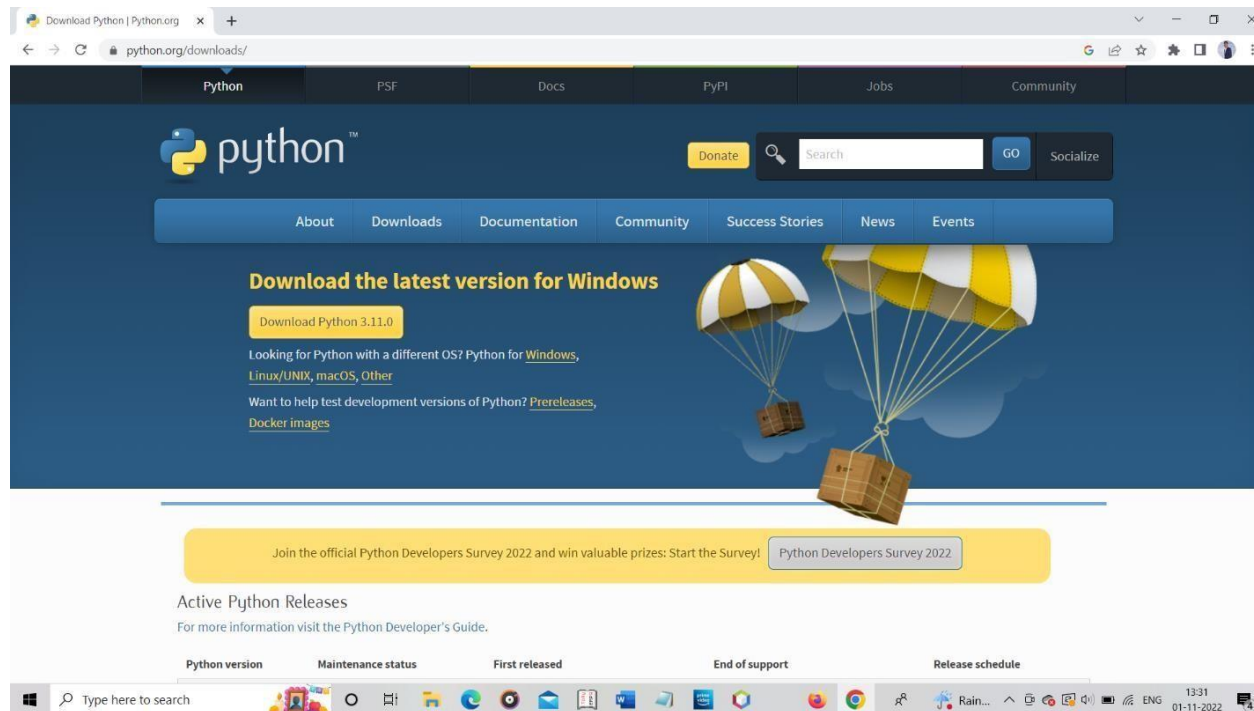
#### Security content in this release

- 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.

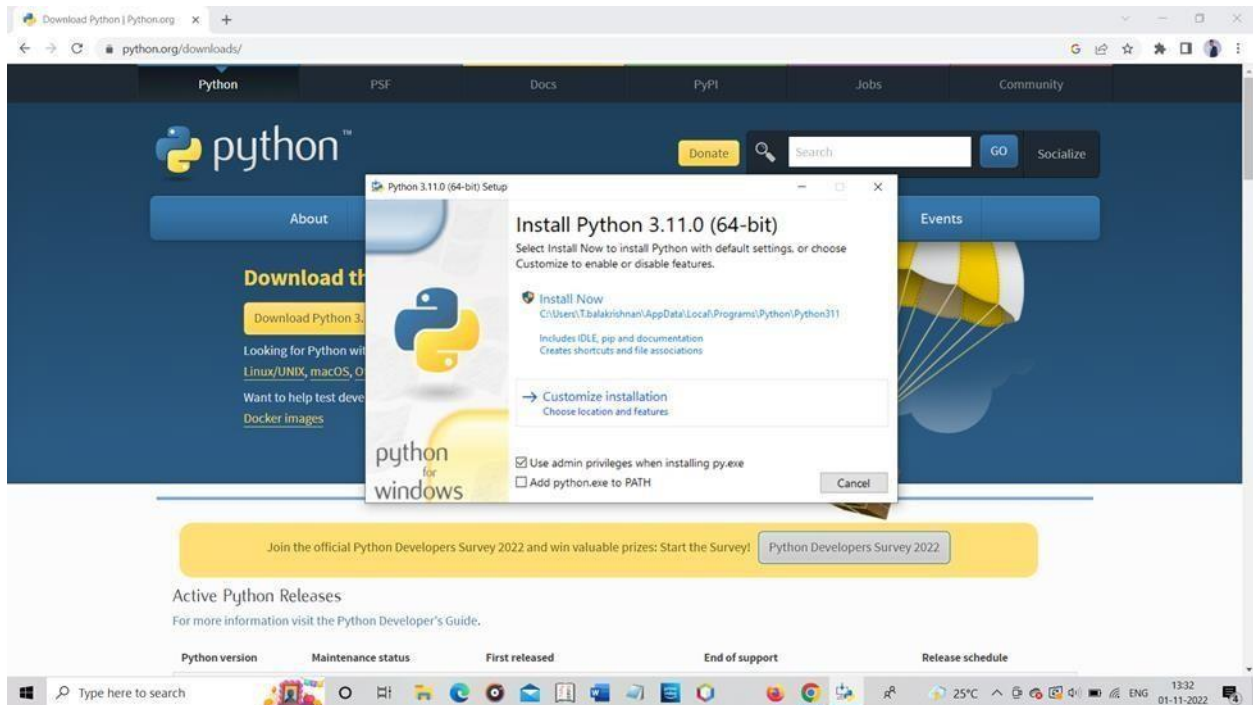
#### More resources

- [Online Documentation](#)

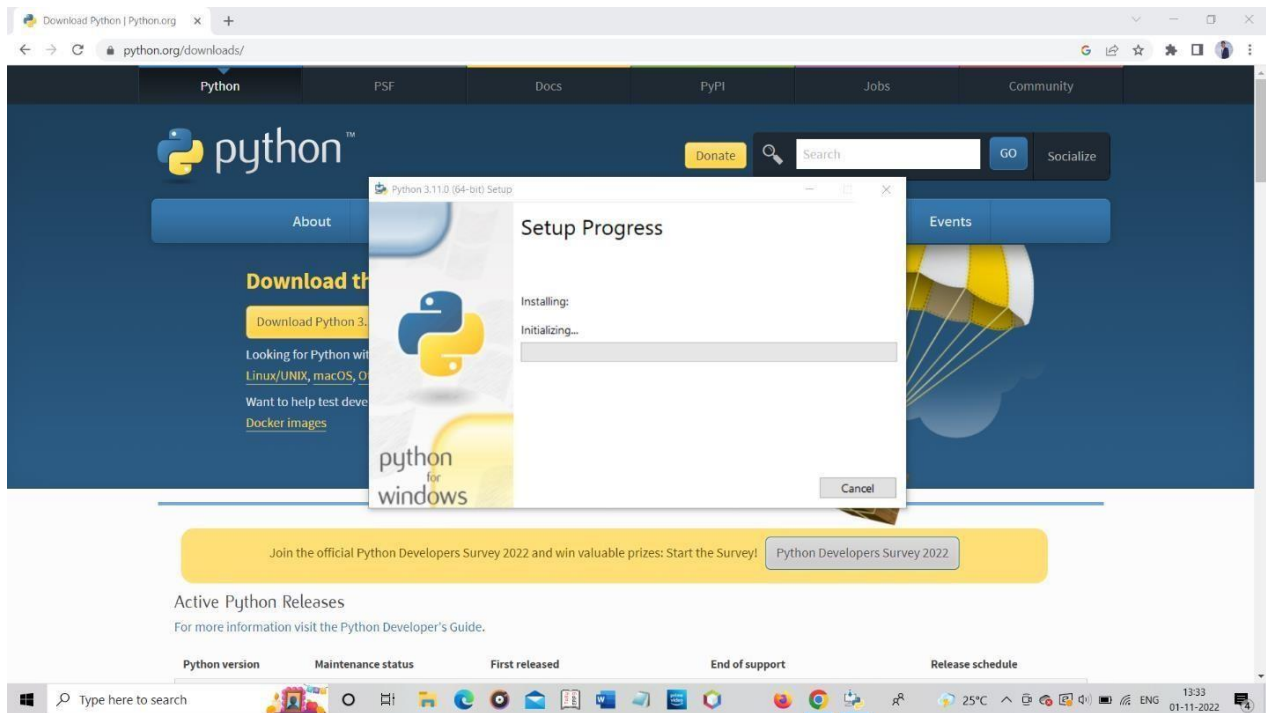
## STEP-4



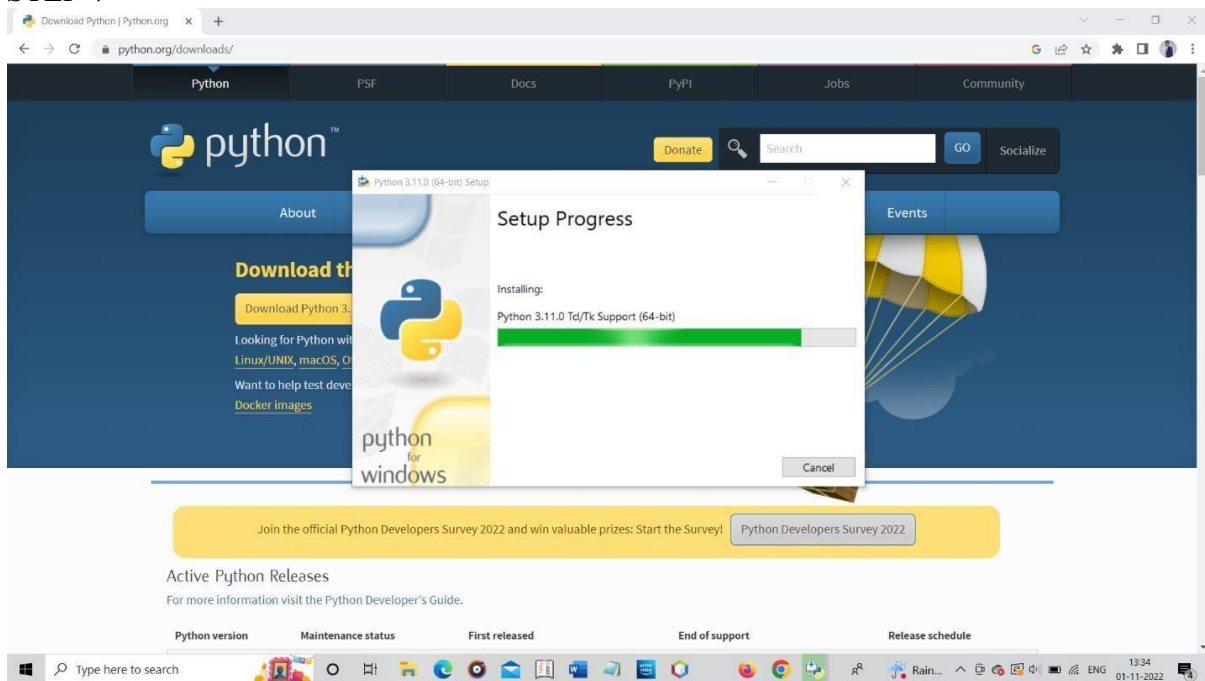
## STEP-5



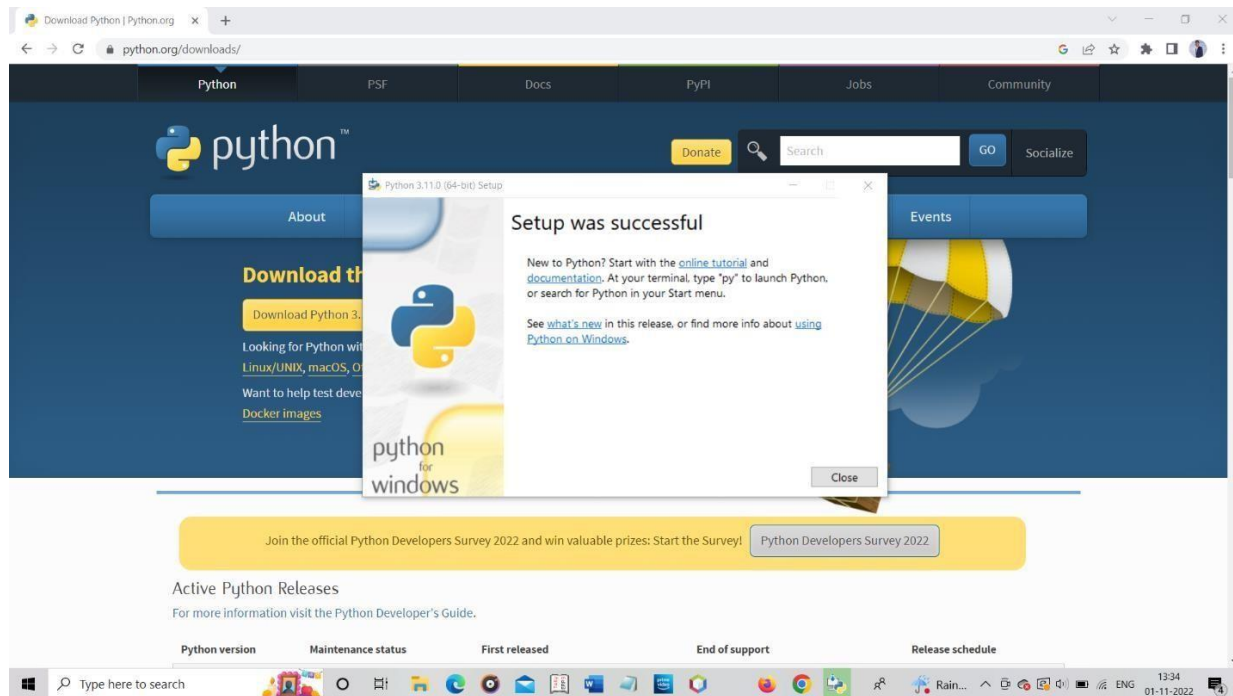
## STEP-6



## STEP-7



## STEP-8



### PYTHON CODE:

```
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()`

File Edit Shell Debug Options Window Help

Python 3.9.7 (tags/v3.9.7:1016ef3, Aug 30 2021, 20:19:38) [MSC v.1929 64 bit (AMD64)] 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

>>>