PYTHON SCRIPT

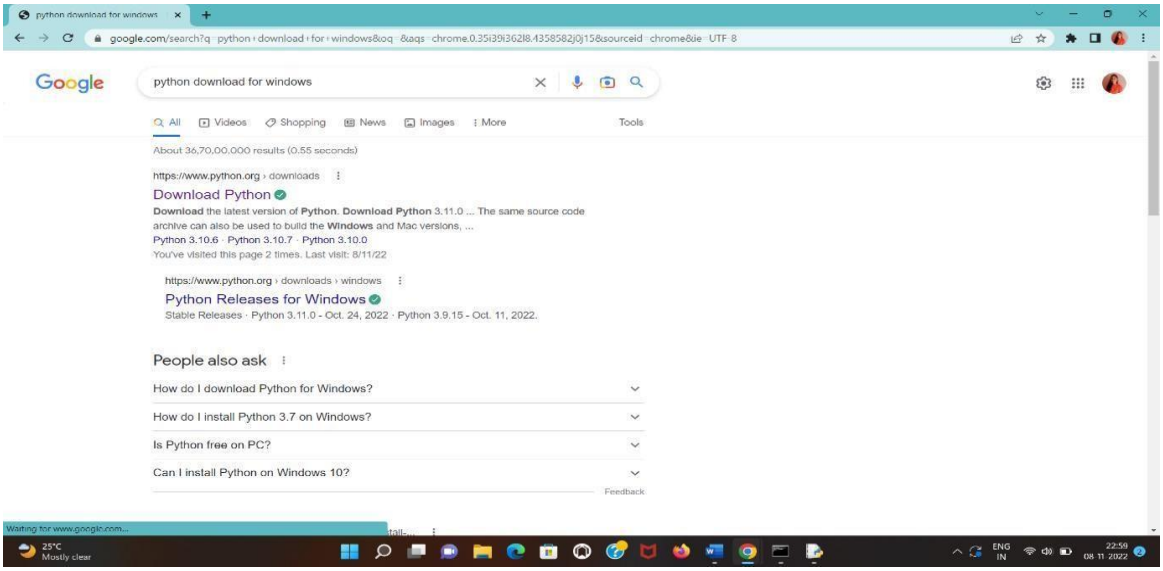
Assignment Date	1st NOVEMBER 2022
Team ID	PNT2022TMID29330
Project Name	Gas Leakage Monitoring and Alerting System

AIM:

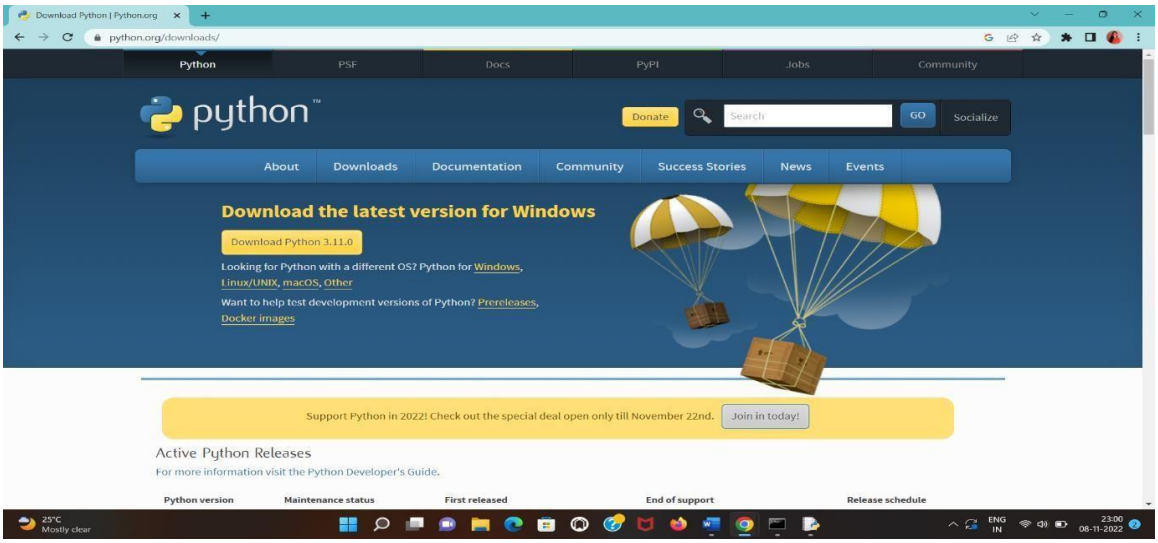
To install python version 3.9.6 and IBM Watson IoT platform packages in python.

STEPS:

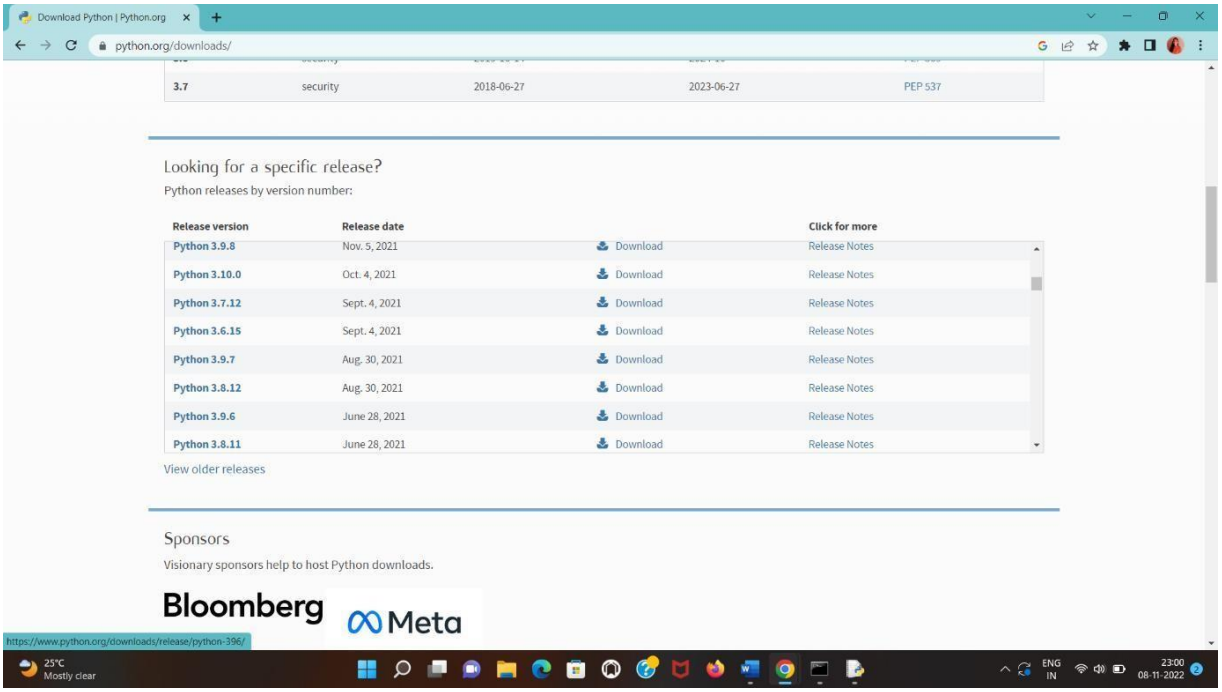
1. Search for python for windows in Google search engine.



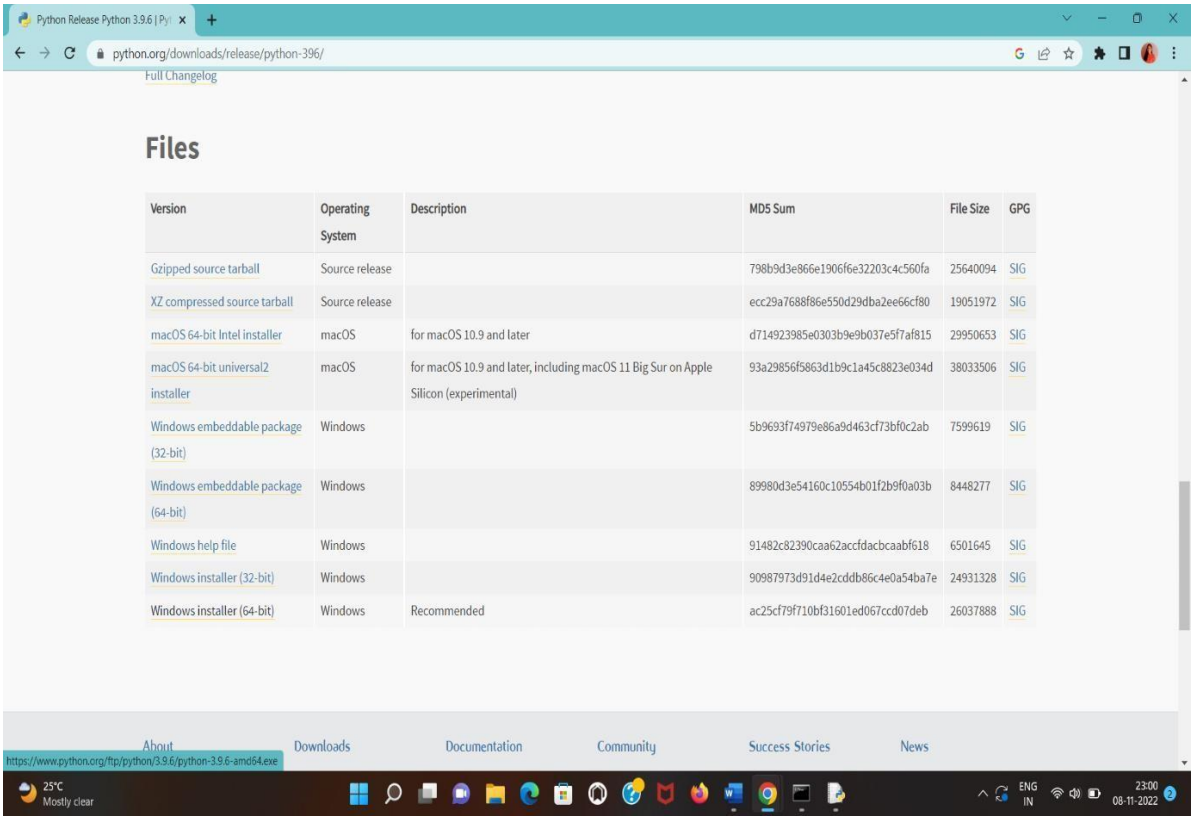
2. Click the First link..



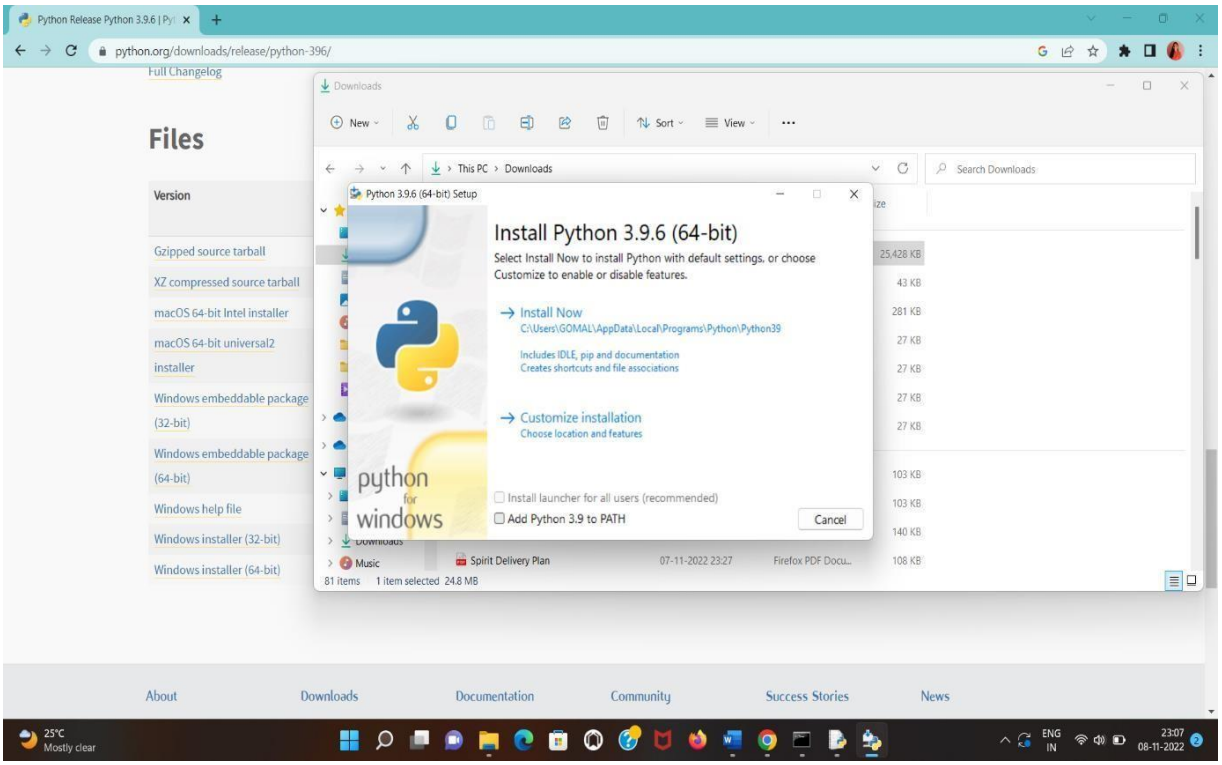
3. Search for python 3.9.6 version which is suitable for IBM Watson platform.



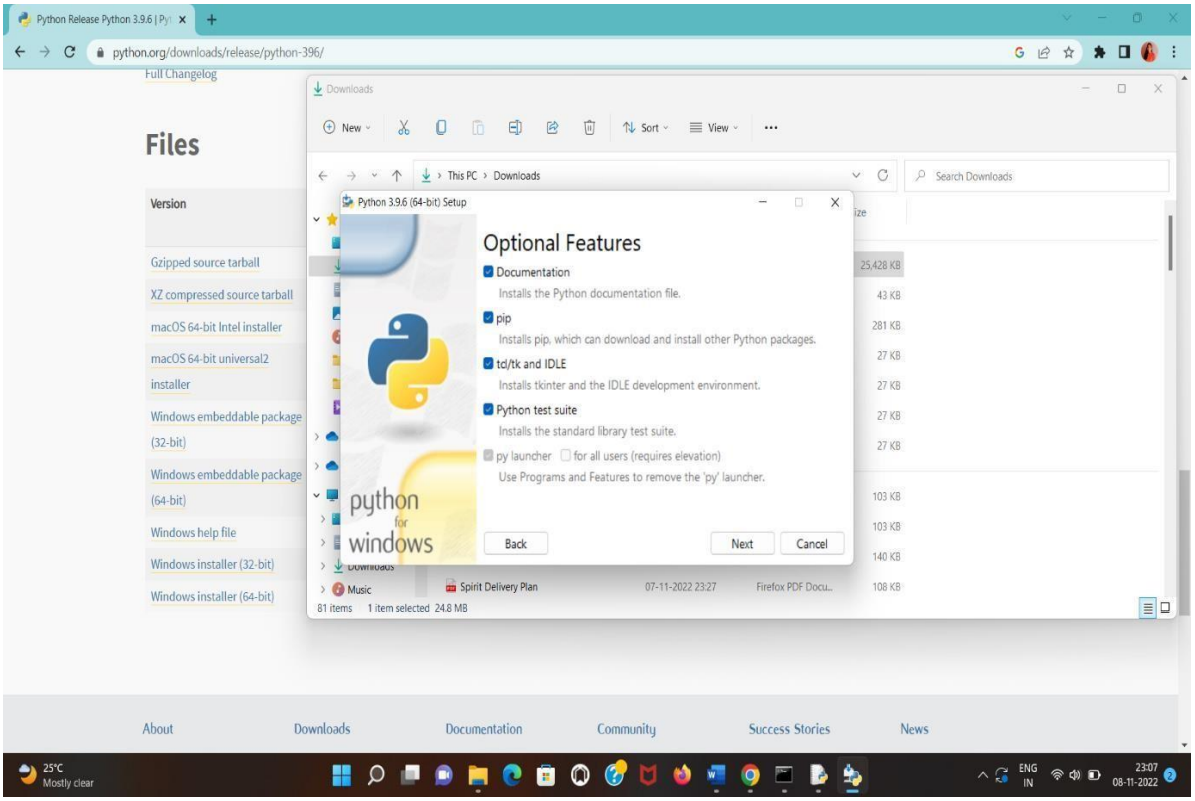
4. Click the python version 3.9.6 and download.



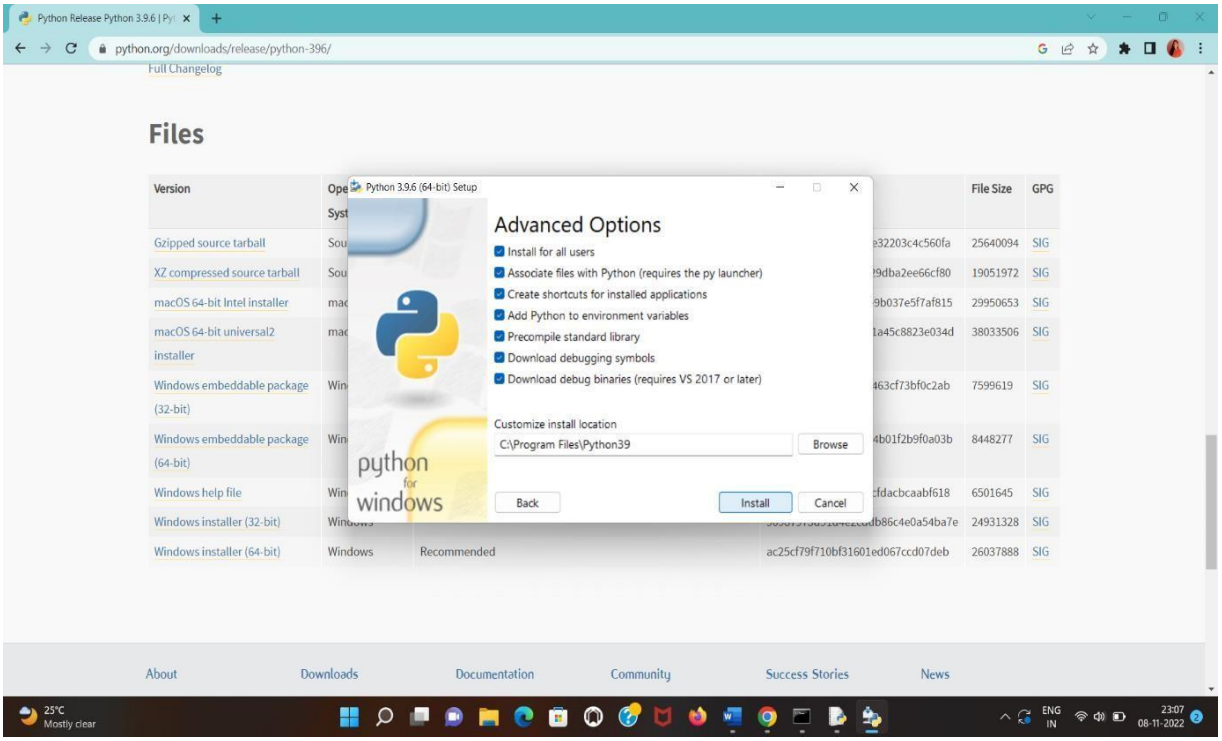
5. Install python 3.9.6 (64-bit) then click customize.



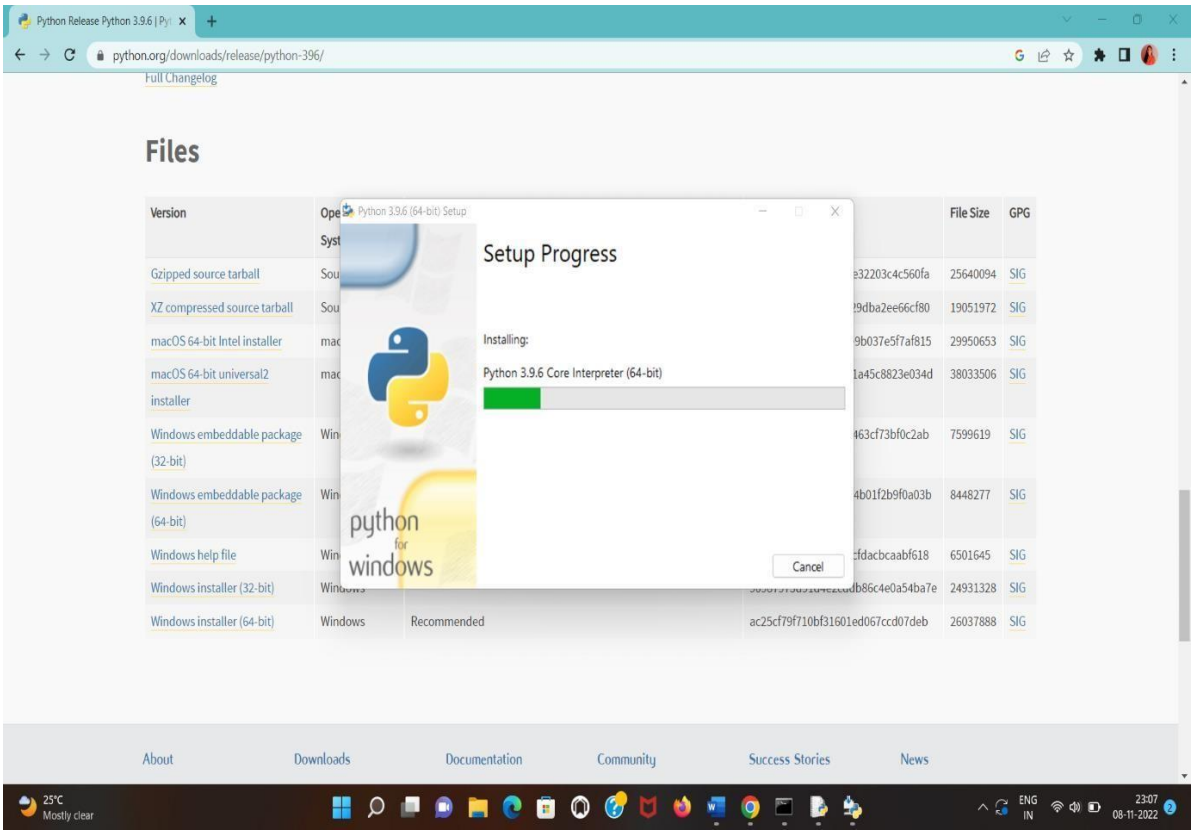
6.Click the next option.



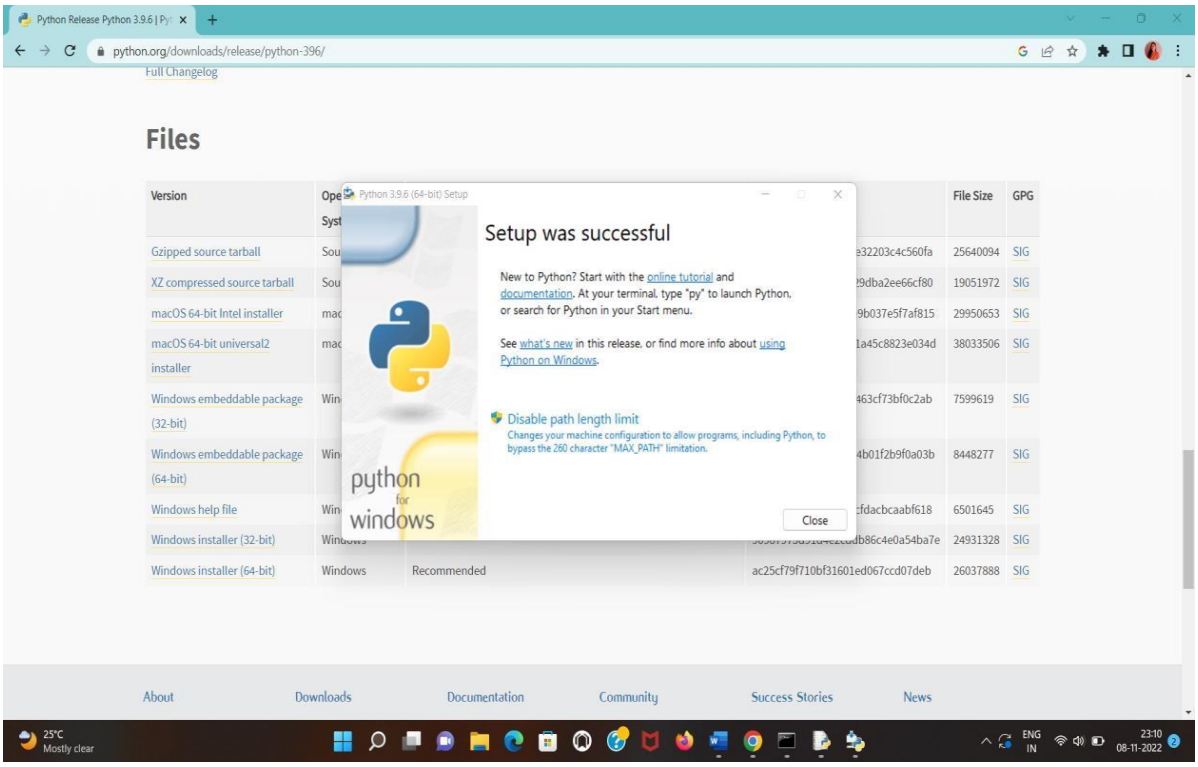
7.Select all the options and install the app.



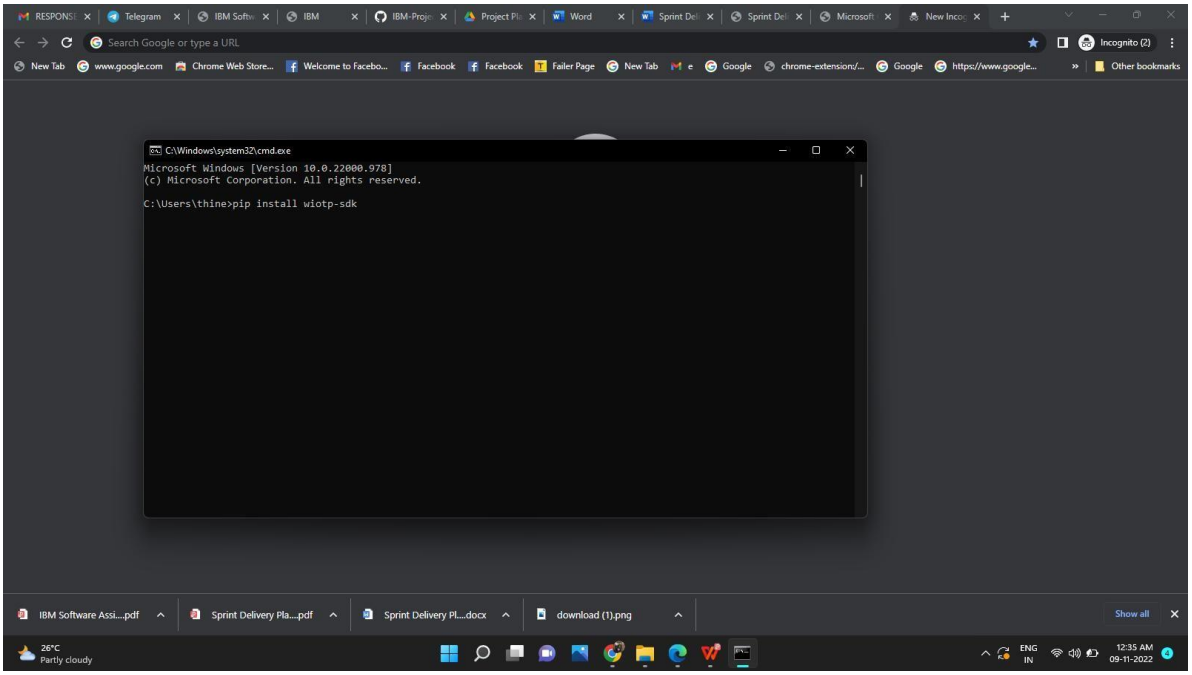
8.Set up process will begin after you give install.



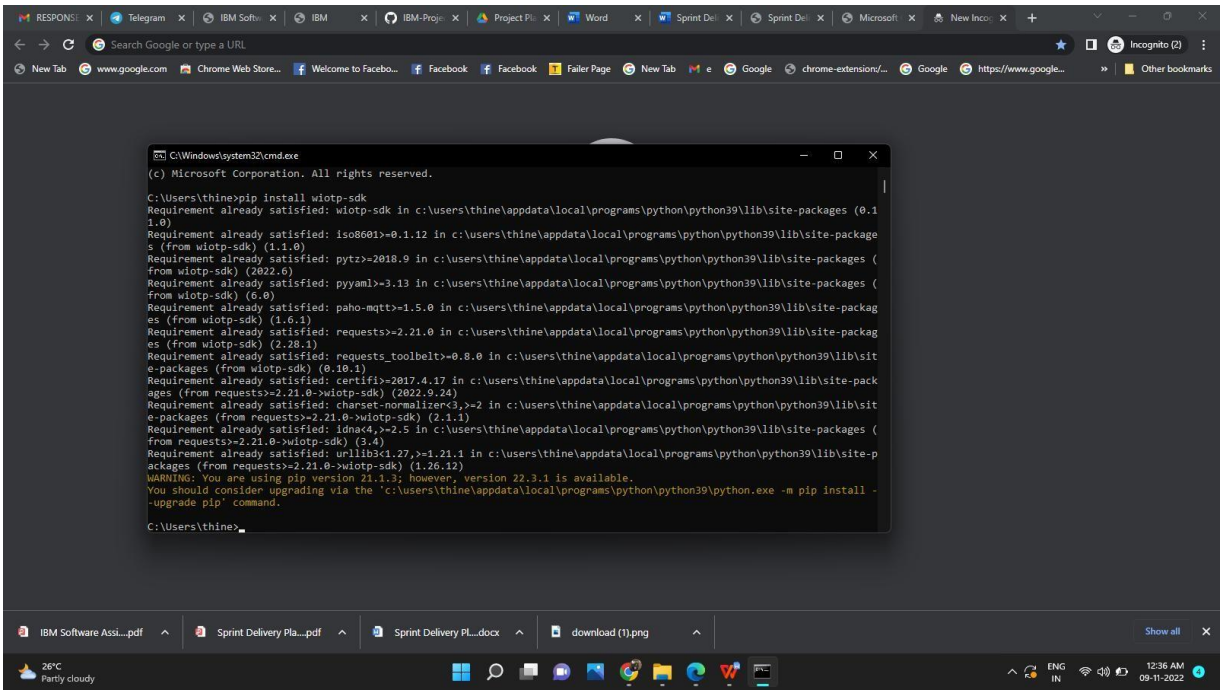
9. Python 3.9.6 version is installed successfully.



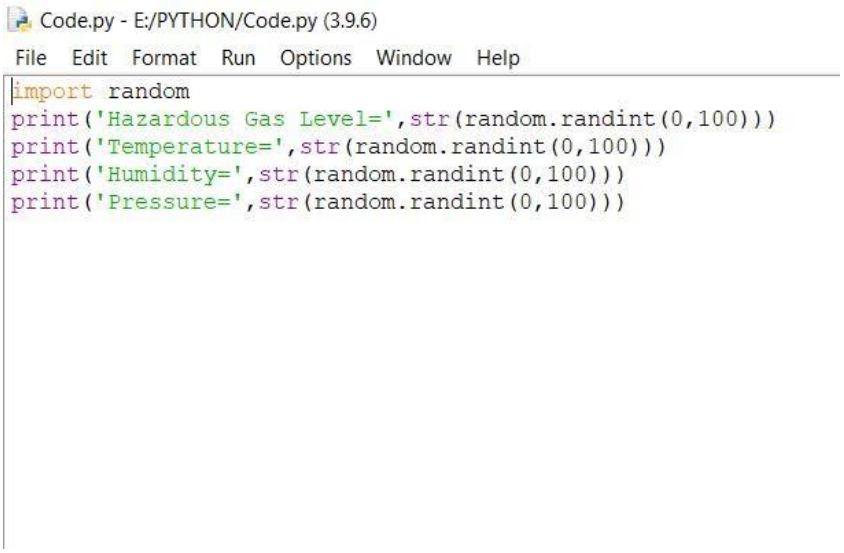
10. Now install the IBM Watson Platform package through command prompt.



11. The package will be installed.



12.Then type program and run in python.

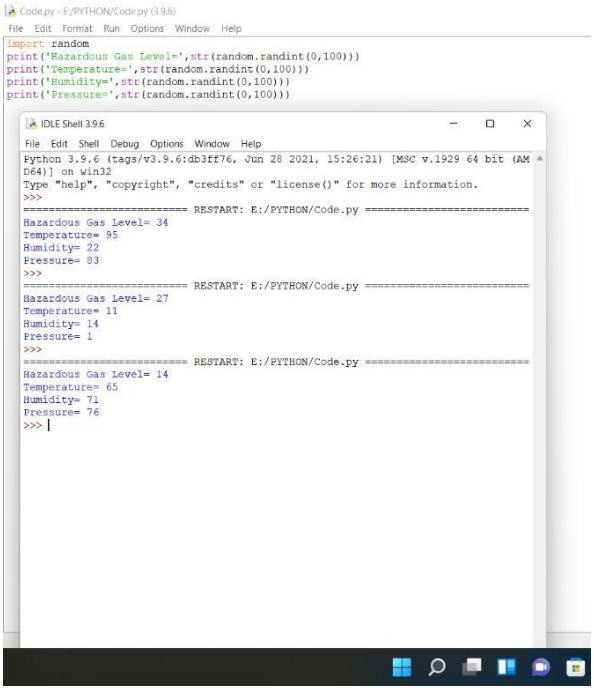


RESULT:

The python version 3.9.6 and IBM Watson IoT platform package are installed successfully.

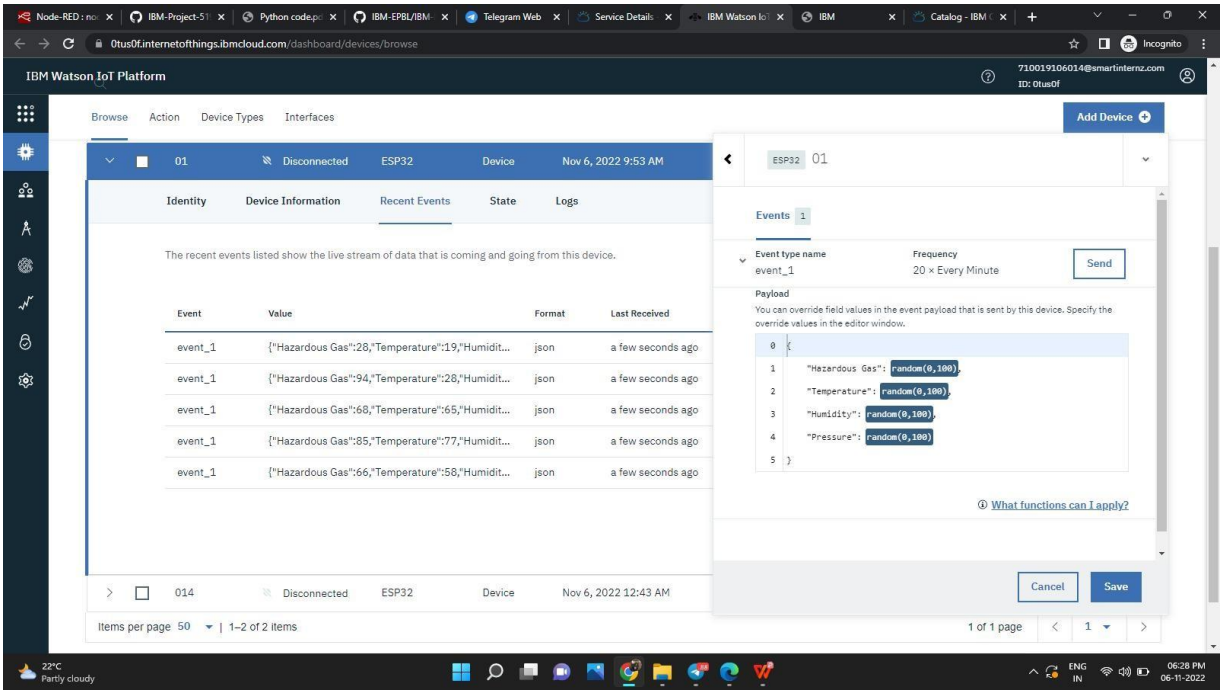
Python Code:

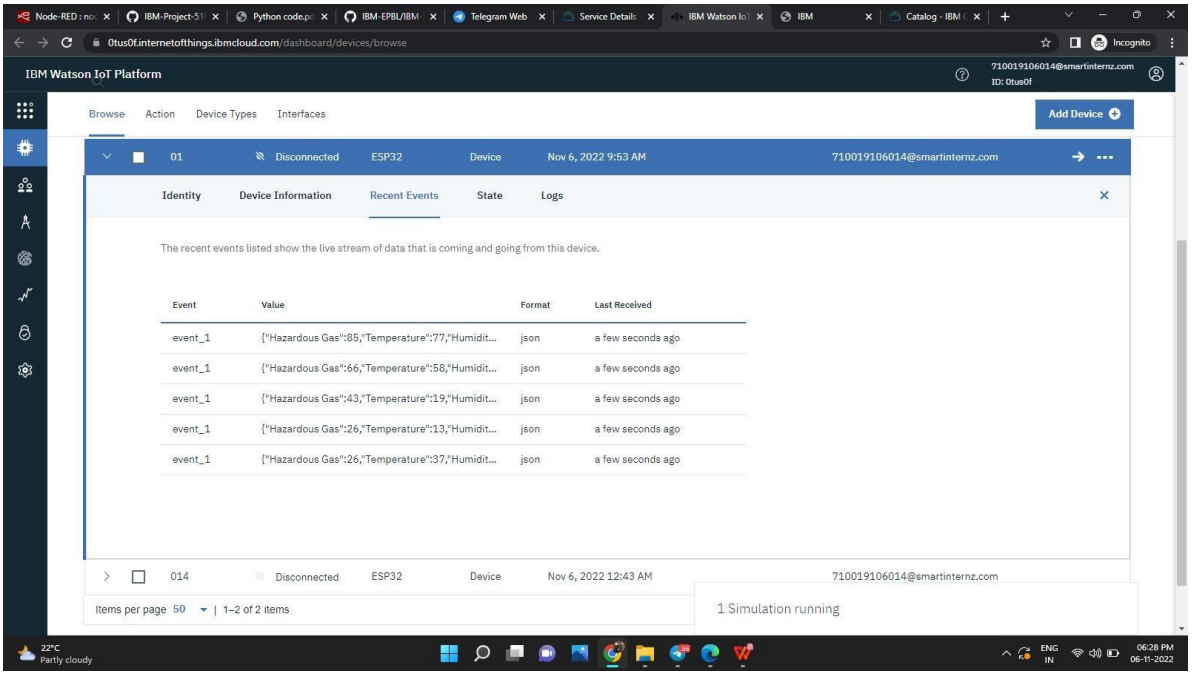
```
import random
print('Hazardous Gas Level=',str(random.randint(0,100)))
print('Temperature=',str(random.randint(0,100)))
print('Humidity=',str(random.randint(0,100)))
print('Pressure=',str(random.randint(0,100)))
```



Watson Code:

```
{
   "Hazardous Gas": random(0,100),
   "Temperature": random(0,100),
   "Humidity": random(0,100),
   "Pressure": random(0,100)
}
```


IBM Watson IoT Platform
Browse
Action
Device Types
Interfaces
Add Device
01
Disconnected
ESP32
Device
Nov 6, 2022 9:53 AM
Identity
Device Information
Recent Events
State
Logs
The recent events listed show the live stream of data that is coming and going from this device.
Event
Value
Format
Last Received
event_1
{"Hazardous Gas":28,"Temperature":19,"Humidit...
json
a few seconds ago
event_1
{"Hazardous Gas":94,"Temperature":28,"Humidit...
json
a few seconds ago
event_1
{"Hazardous Gas":68,"Temperature":65,"Humidit...
json
a few seconds ago
event_1
{"Hazardous Gas":85,"Temperature":77,"Humidit...
json
a few seconds ago
event_1
{"Hazardous Gas":66,"Temperature":58,"Humidit...
json
a few seconds ago
014
Disconnected
ESP32
Device
Nov 6, 2022 12:43 AM
Items per page 50
1–2 of 2 items
1 of 1 page
ESP32 01
Events 1
Event type name
event_1
Frequency
20 × Every Minute
Send
Payload
You can override field values in the event payload that is sent by this device. Specify the override values in the editor window.
{
"Hazardous Gas": random(0,100),
"Temperature": random(0,100),
"Humidity": random(0,100),
"Pressure": random(0,100)
}
What functions can I apply?
Cancel
Save


IBM Watson IoT Platform
Browse
Action
Device Types
Interfaces
Add Device
01
Disconnected
ESP32
Device
Nov 6, 2022 9:53 AM
710019106014@smartinternz.com
Identity
Device Information
Recent Events
State
Logs
The recent events listed show the live stream of data that is coming and going from this device.
Event
Value
Format
Last Received
event_1
{"Hazardous Gas":85,"Temperature":77,"Humidit...
json
a few seconds ago
event_1
{"Hazardous Gas":66,"Temperature":58,"Humidit...
json
a few seconds ago
event_1
{"Hazardous Gas":43,"Temperature":19,"Humidit...
json
a few seconds ago
event_1
{"Hazardous Gas":26,"Temperature":13,"Humidit...
json
a few seconds ago
event_1
{"Hazardous Gas":26,"Temperature":37,"Humidit...
json
a few seconds ago
014
Disconnected
ESP32
Device
Nov 6, 2022 12:43 AM
710019106014@smartinternz.com
Items per page 50
1–2 of 2 items
1 Simulation running