Python Prògramming

Day - 1

Session Topics

- What is Python?
- Why Python ?
- Features of Python
- Applications
- Introduction to Jupyter Notebook
- Markdown Format
- Python Basics



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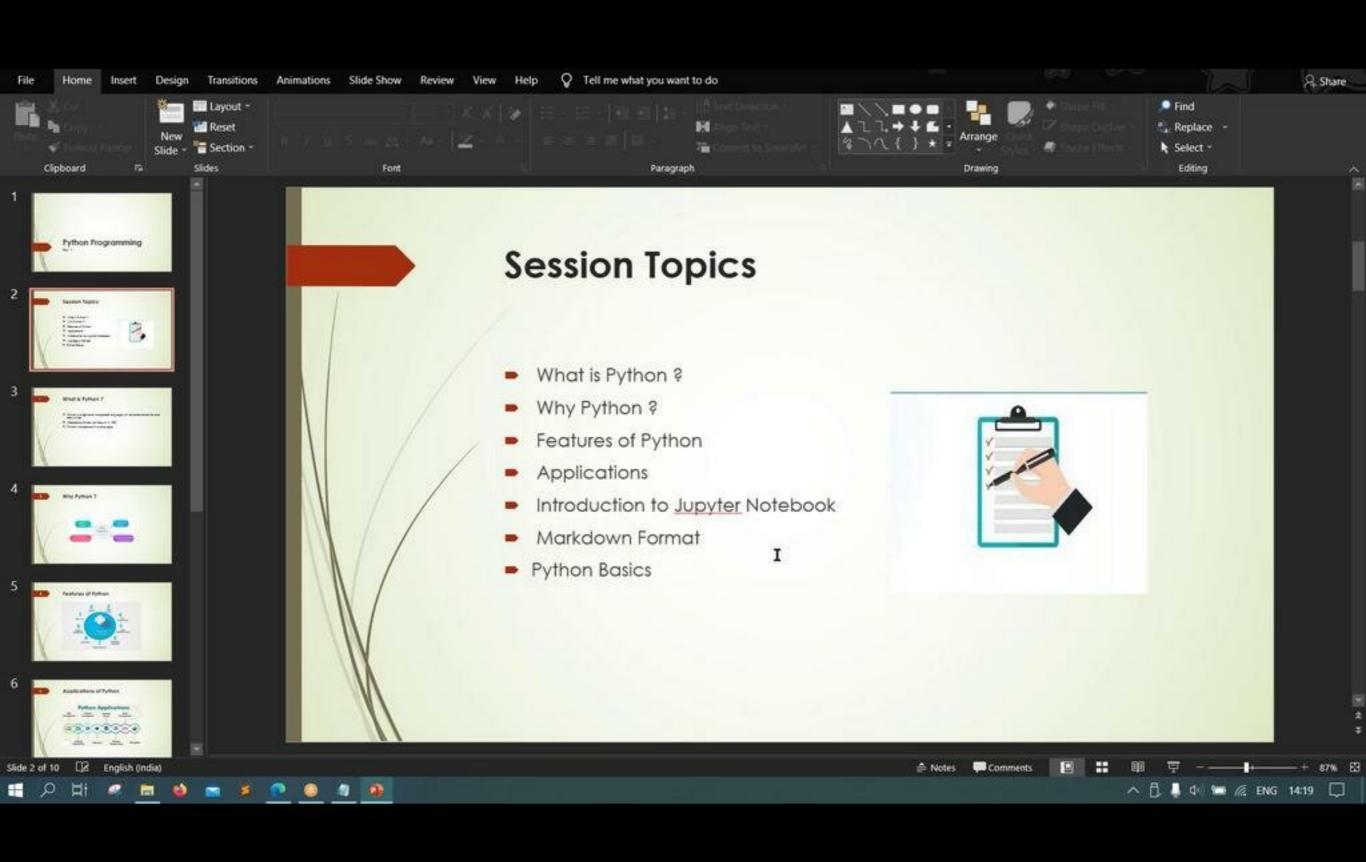


Ln 5, Col 13

290% Windows (CRLF)







What is Python?

- Python is a high level, interpreted language with dynamic semantics and easy syntax
- Created by Guido Van Rossum in 1989.
- Python is a case-sensitive language.

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Ln 4, Col 1

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high level:

Ln 4, Col 1

180% Windows (CRLF)







High level

- -> Interpreted: line by line execution. ex: Python
- -> compiled: Entire program will be executed at one go process ex: C,C#,...

Python is case sensitive

Name != name

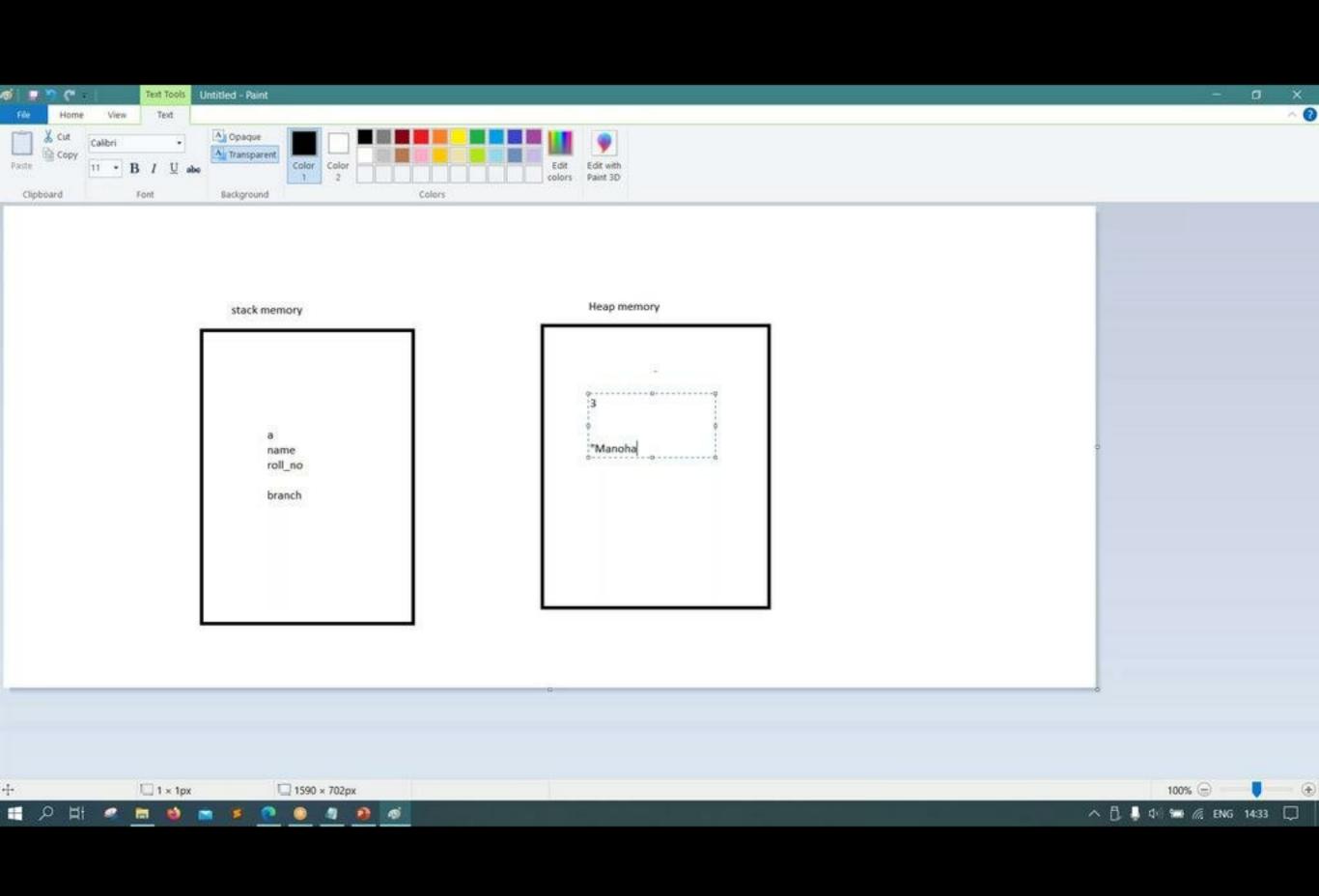
string name = "syam"

Programming: Writing the instructions

Code: The instructions we write



Ln 16, Col 8



High level

- -> Interpreted: line by line execution. ex: Python
- -> compiled: Entire program will be executed at one go process

ex: C,C#,...

Python is case sensitive

Name != name

name = "syam"

Dynamic:

Dynamic:

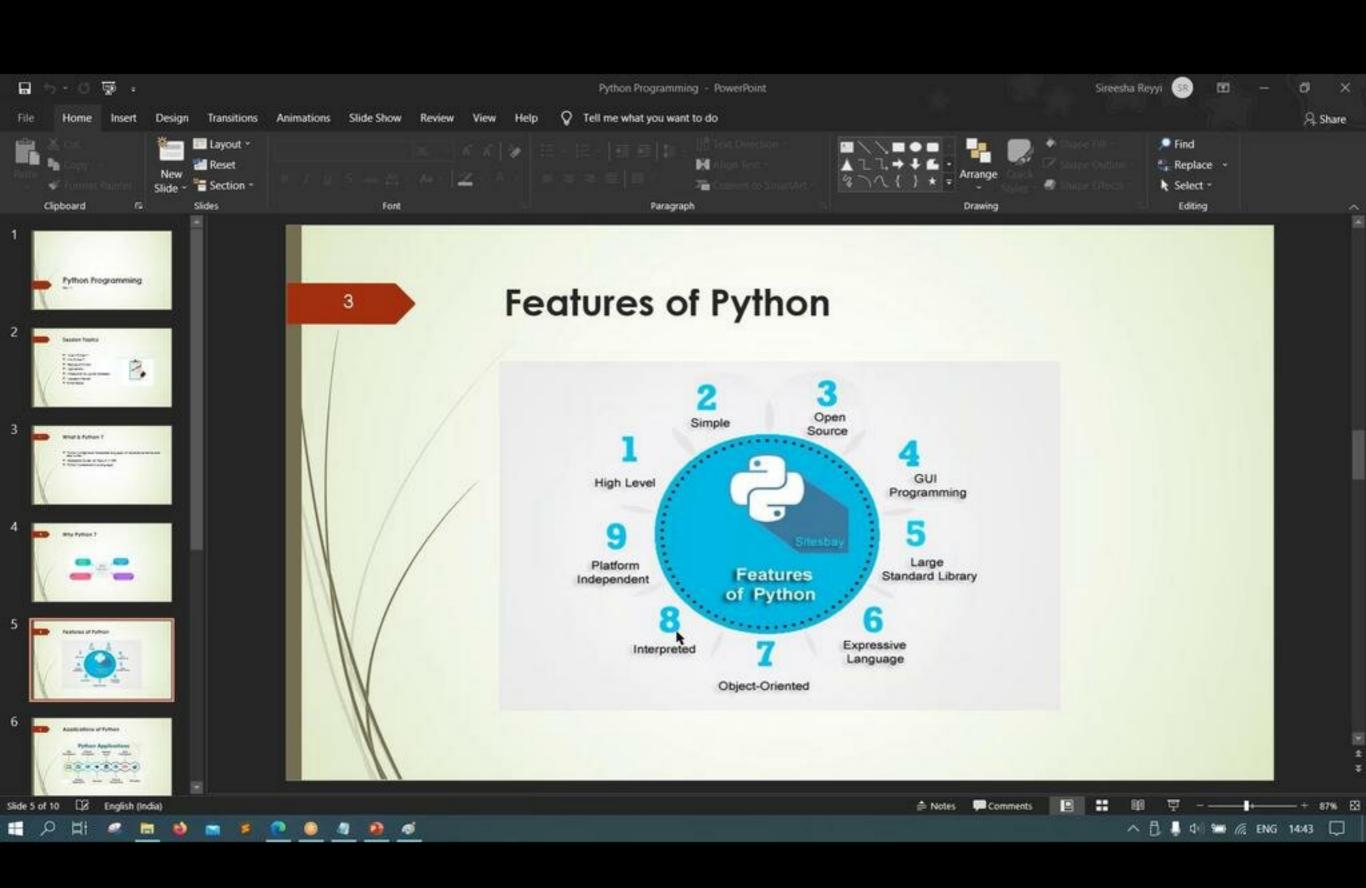
- 1) we no need to mention the data type of the variable
- 2) There is automatic garbage collection in python
- => unused variables/values will be automatically deleted from the memory

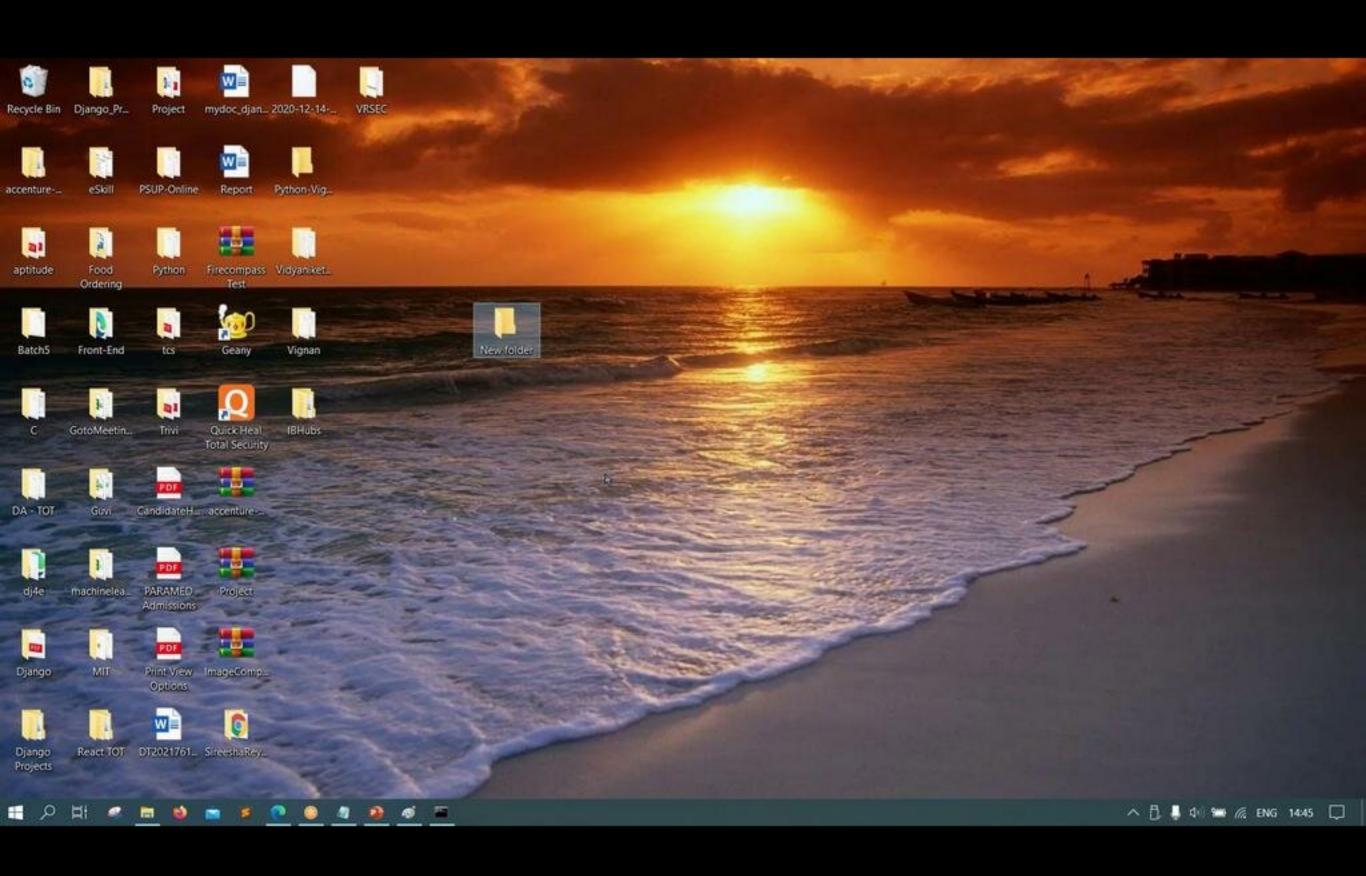
Programming: Writing the instructions

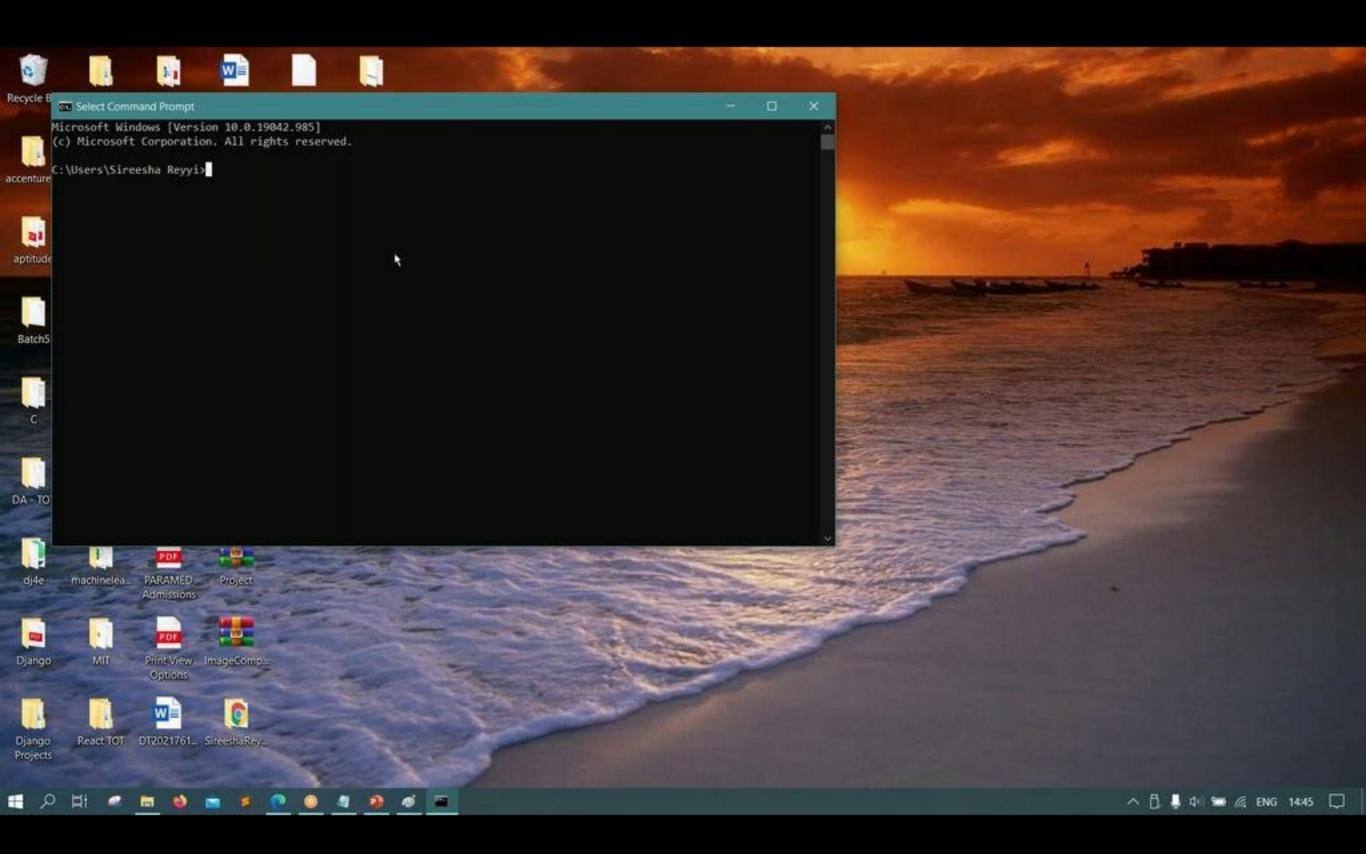
Code: The instructions we write

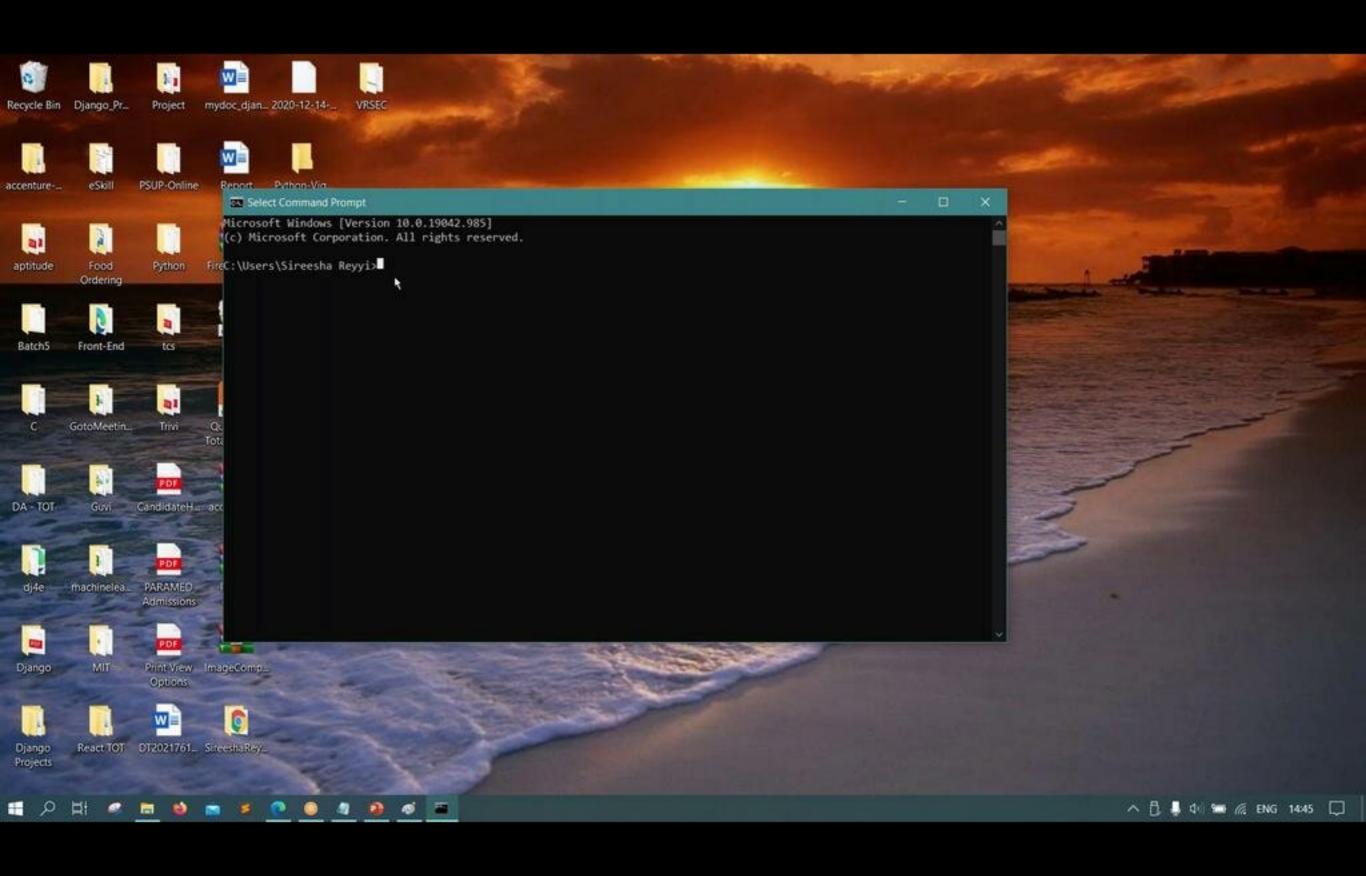
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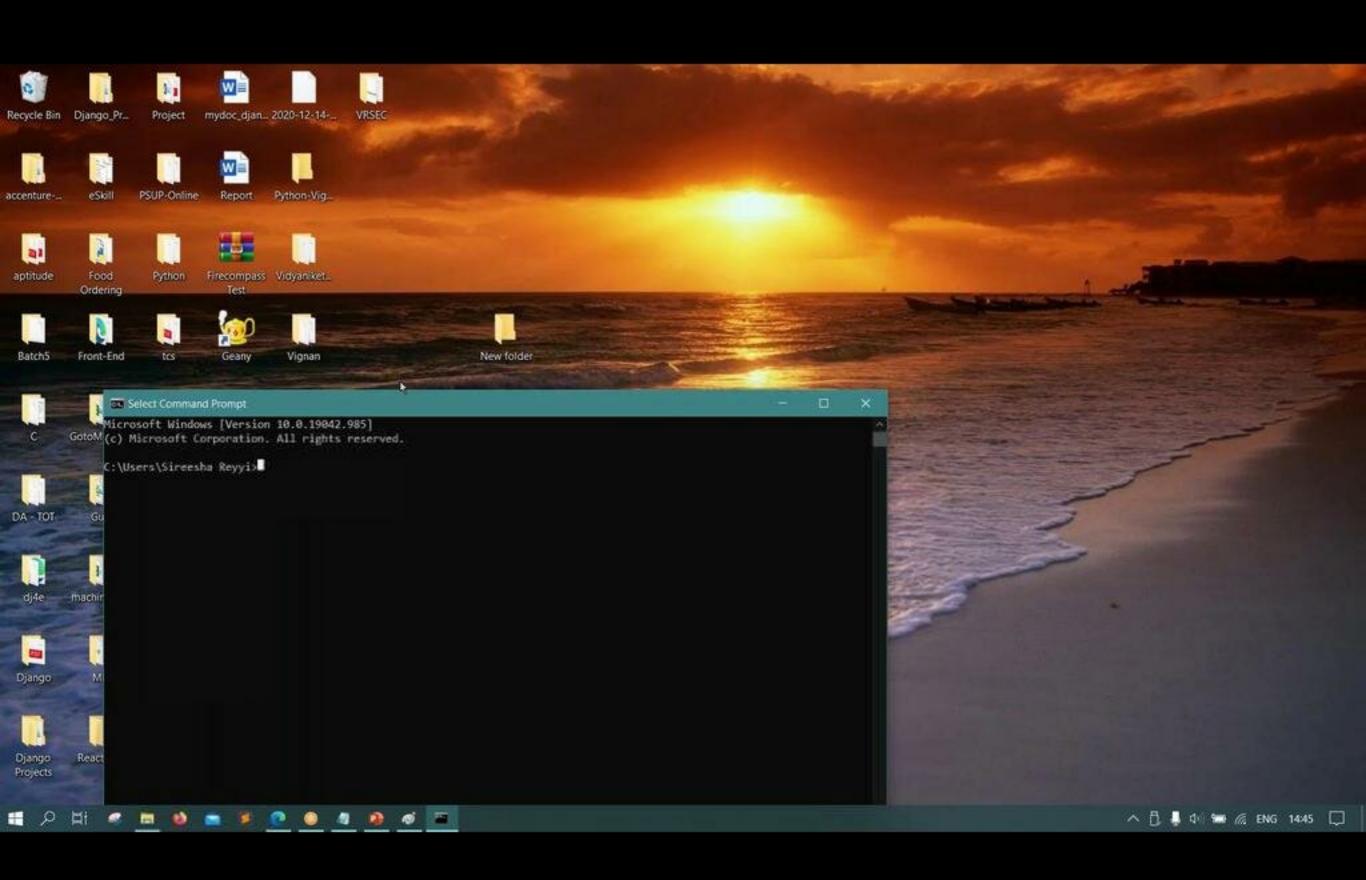


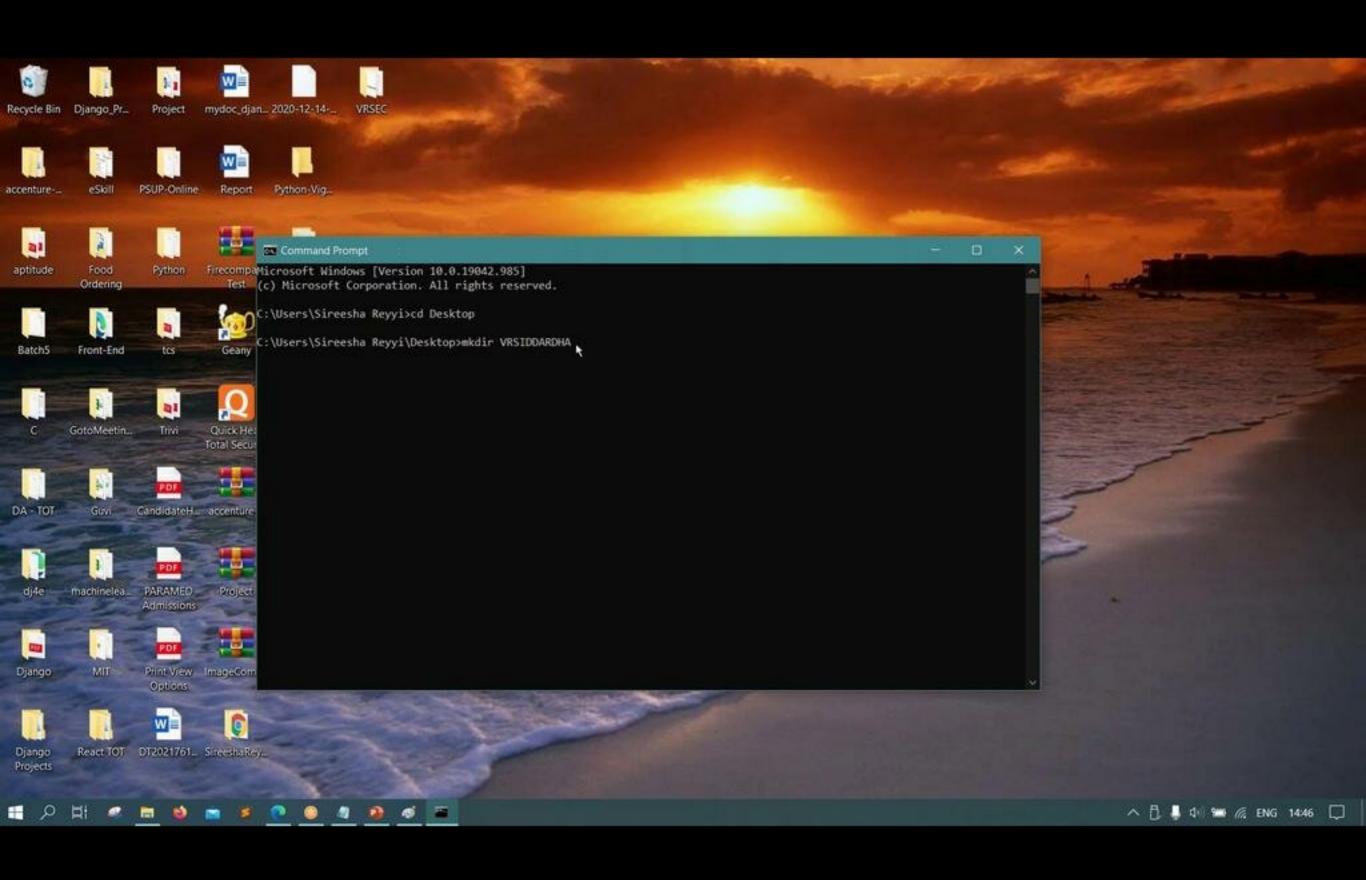


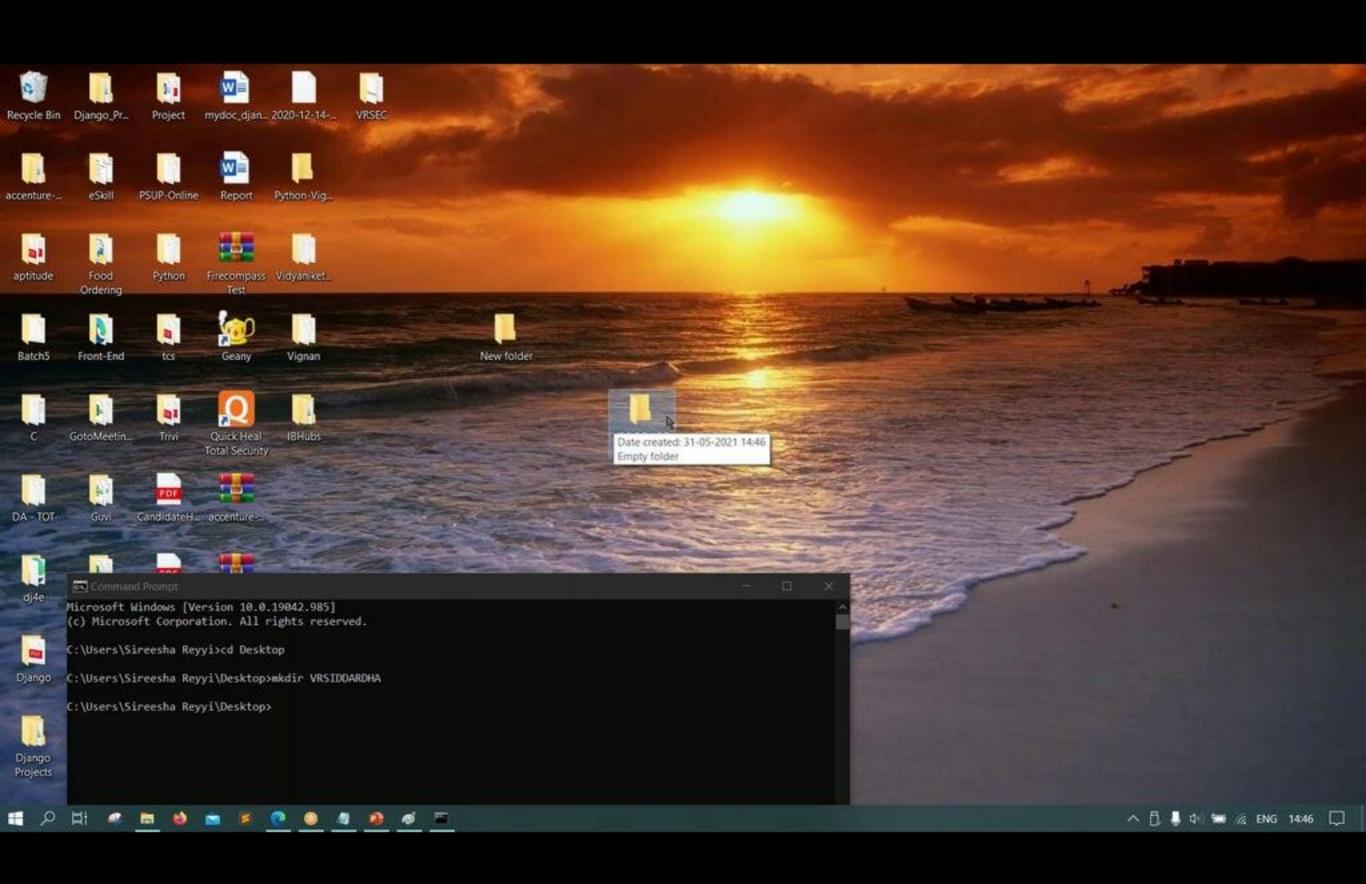


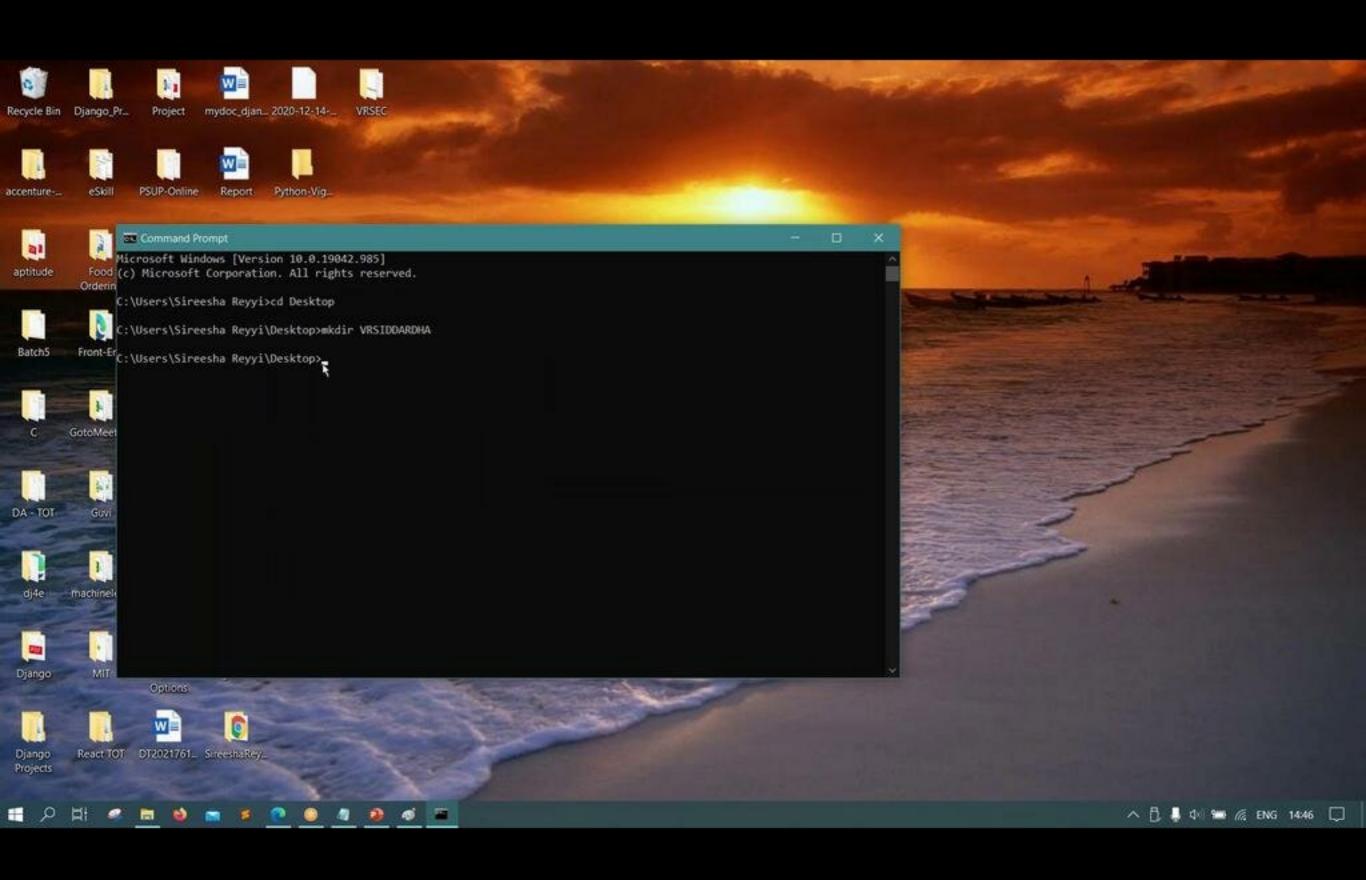


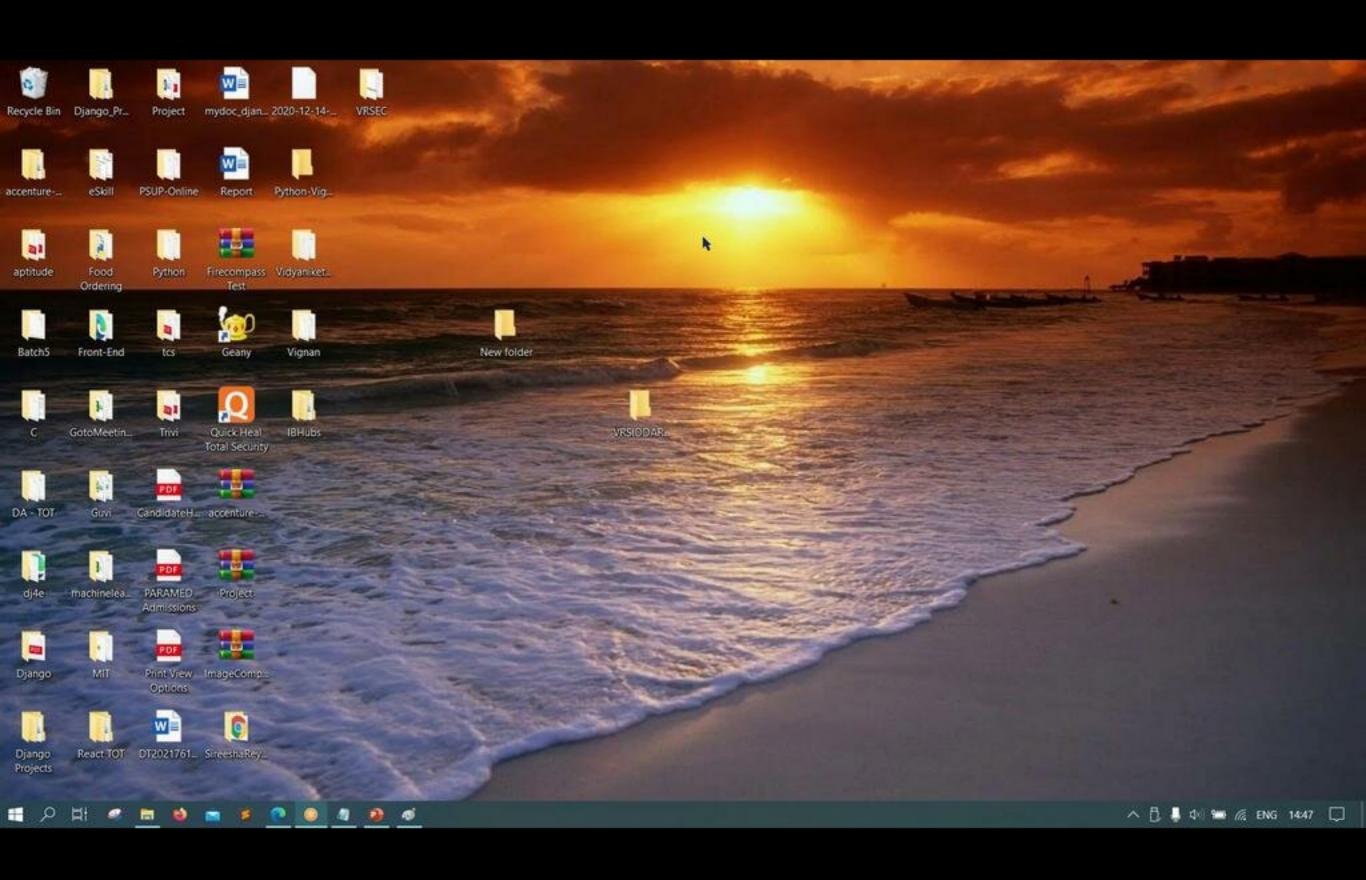


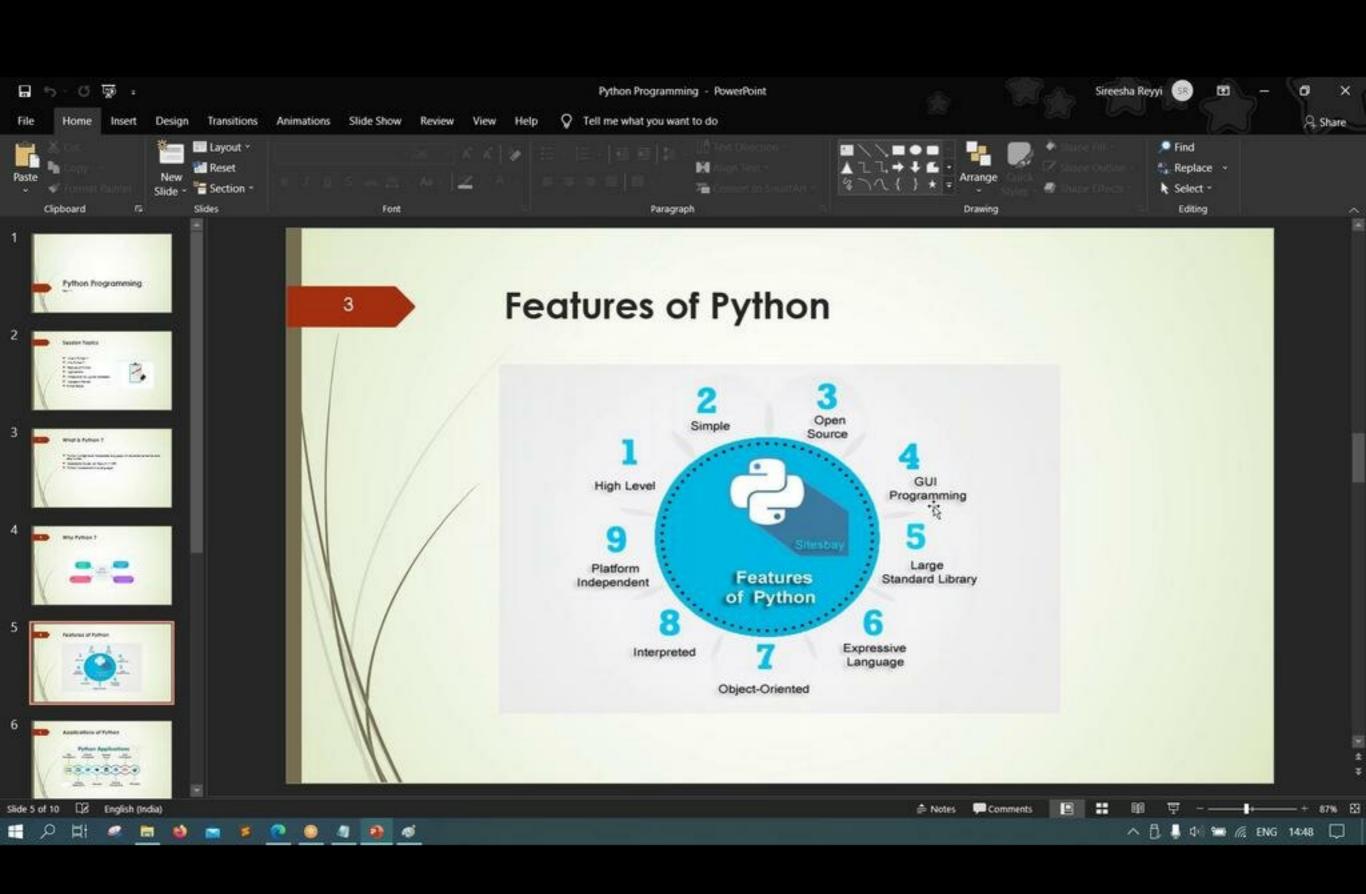












Dynamic:

- 1) we no need to mention the data type of the variable
- 2) There is automatic garbage collection in python
- => unused variables/values will be automatically deleted from the memory

Programming: Writing the instructions

Code: The instructions we write

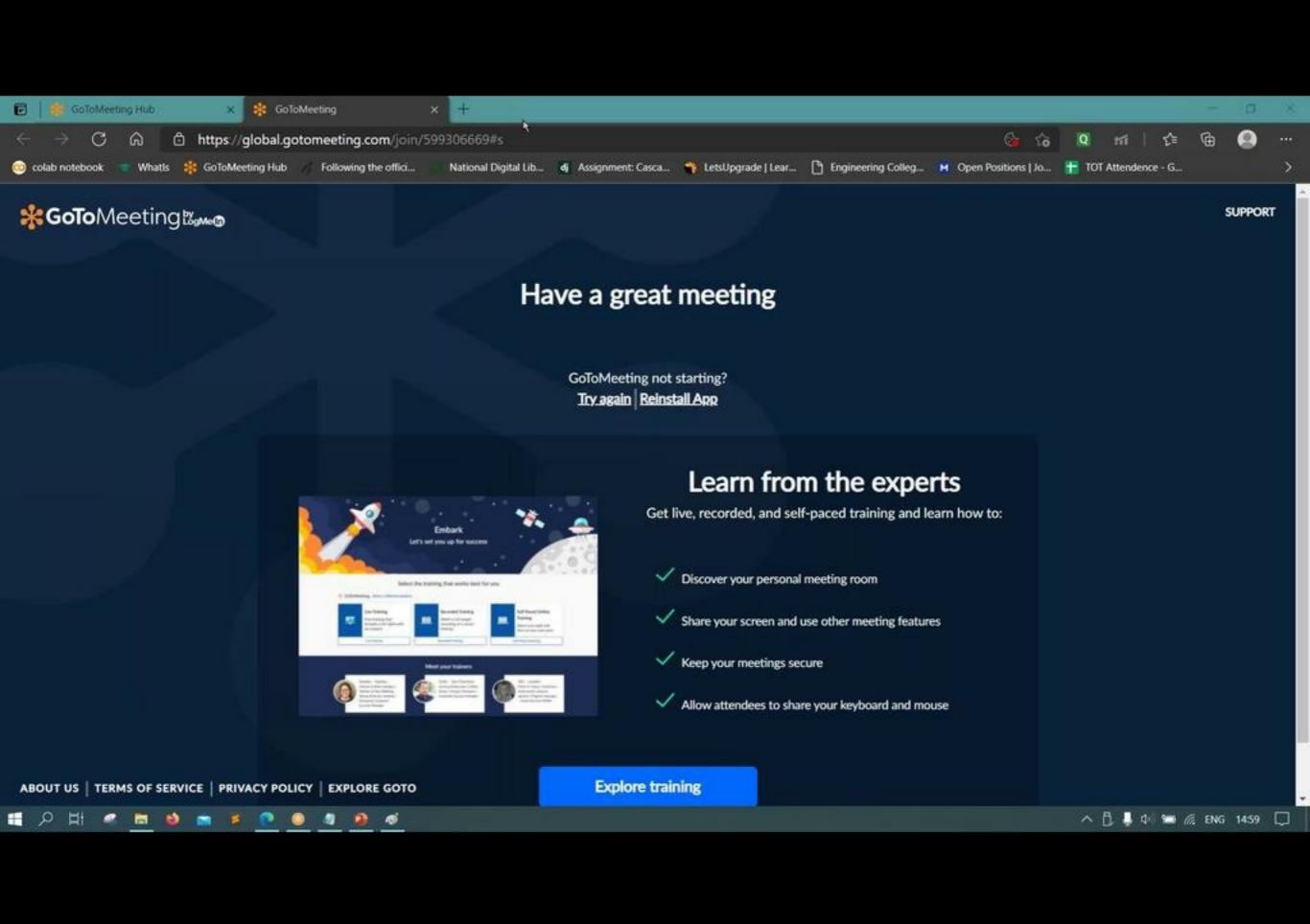
Types of Programming:

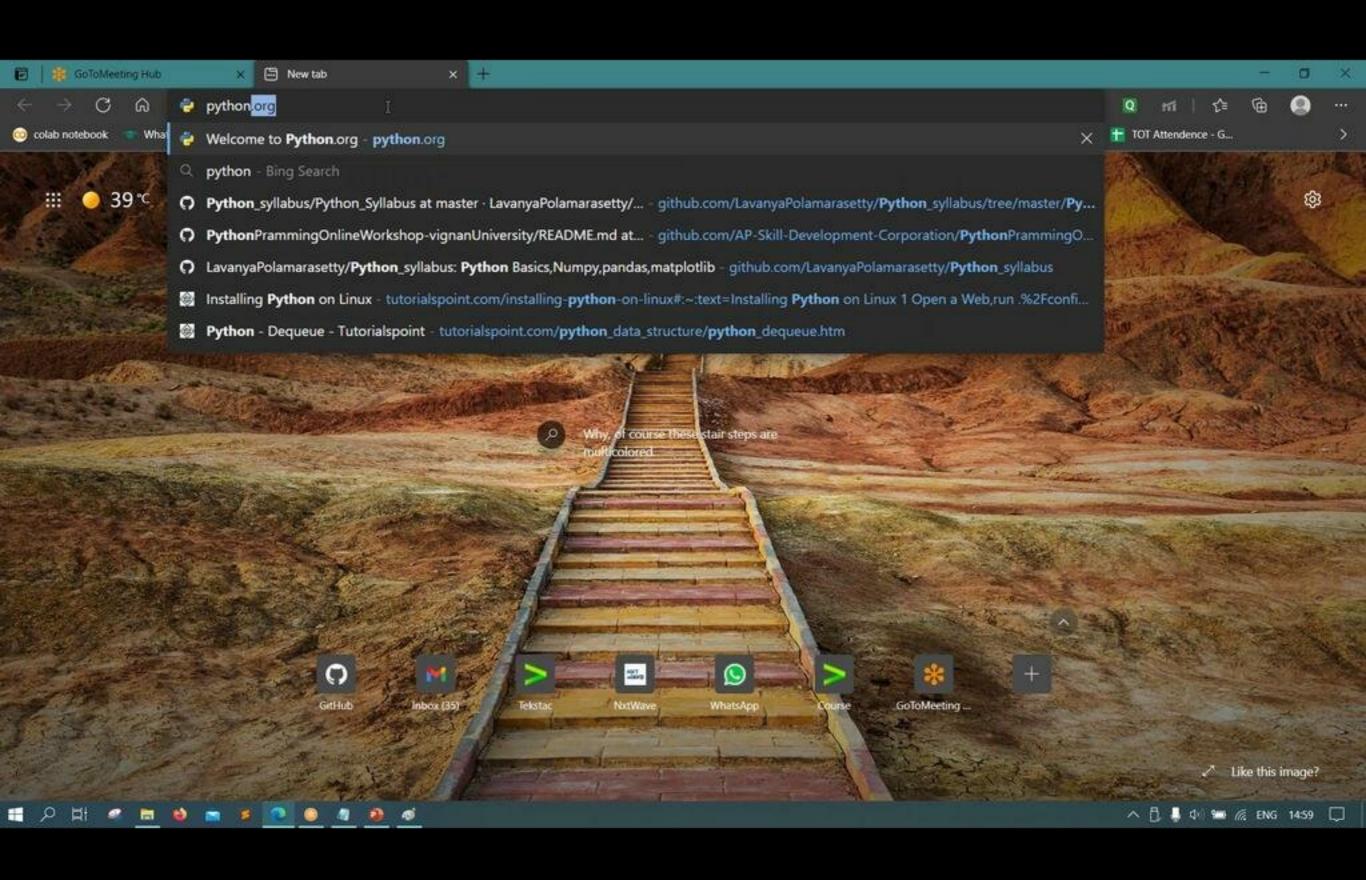
Procedural Programming Objected Oriented Programming

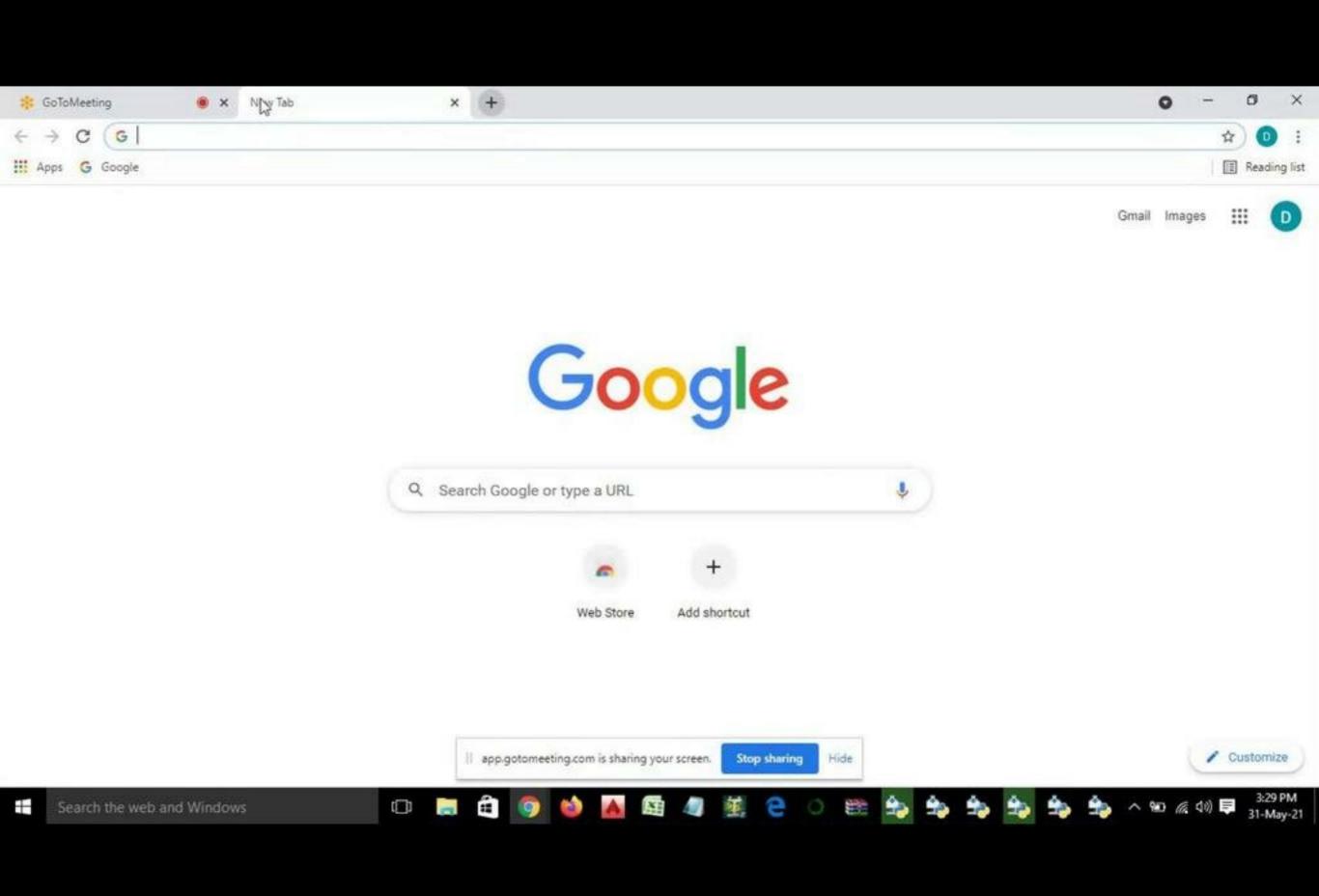


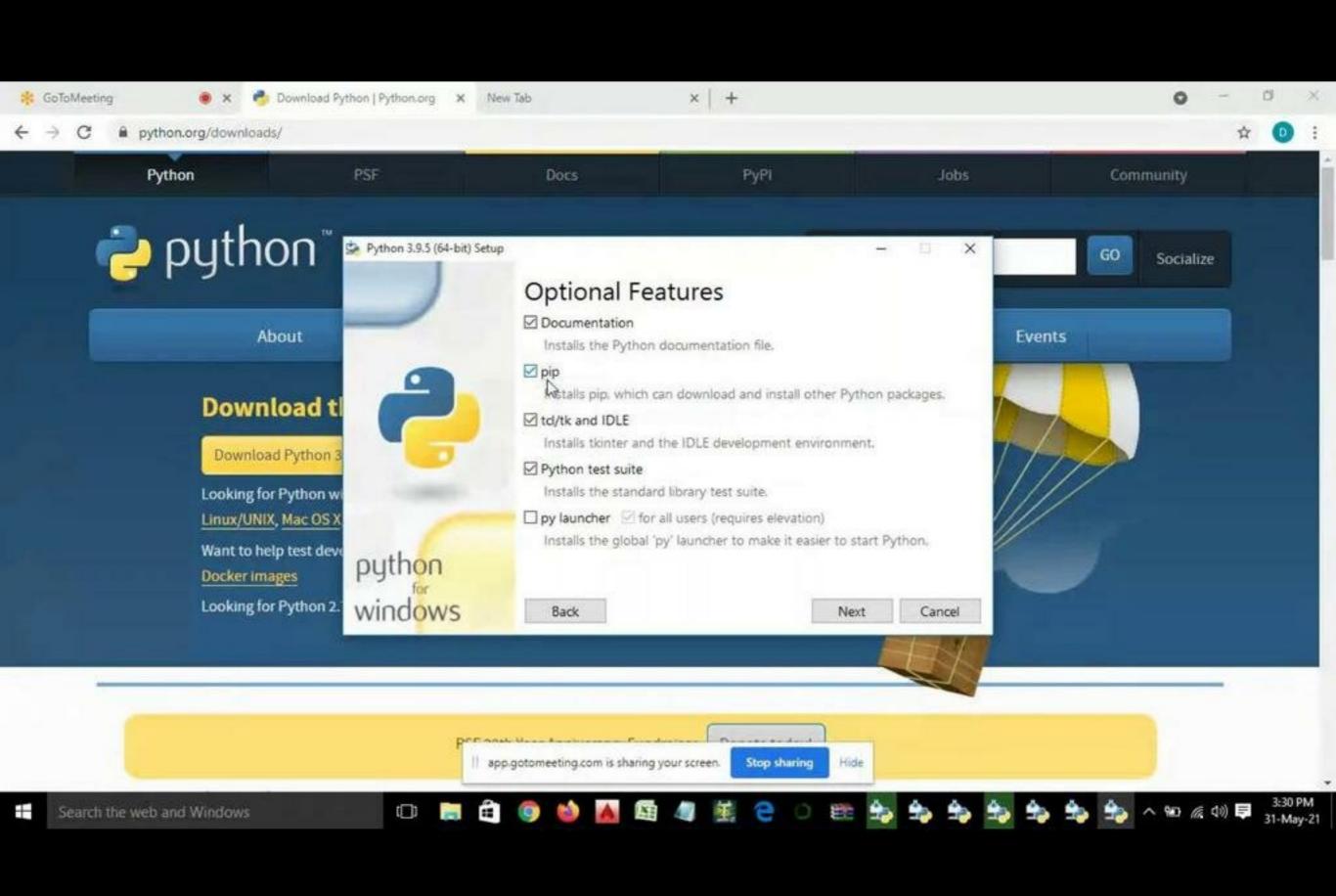
Windows (CRLF)

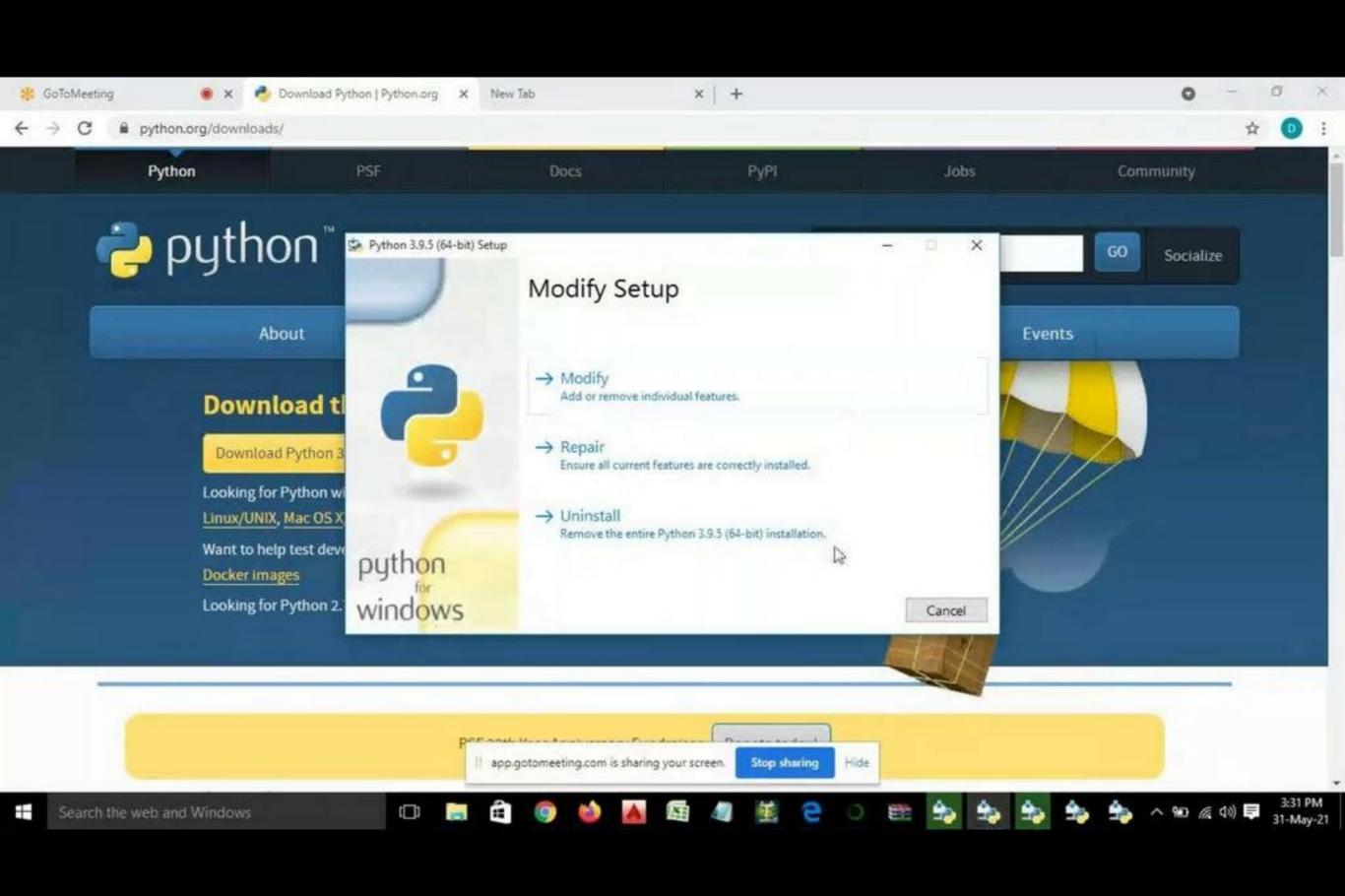
Ln 30, Col 30

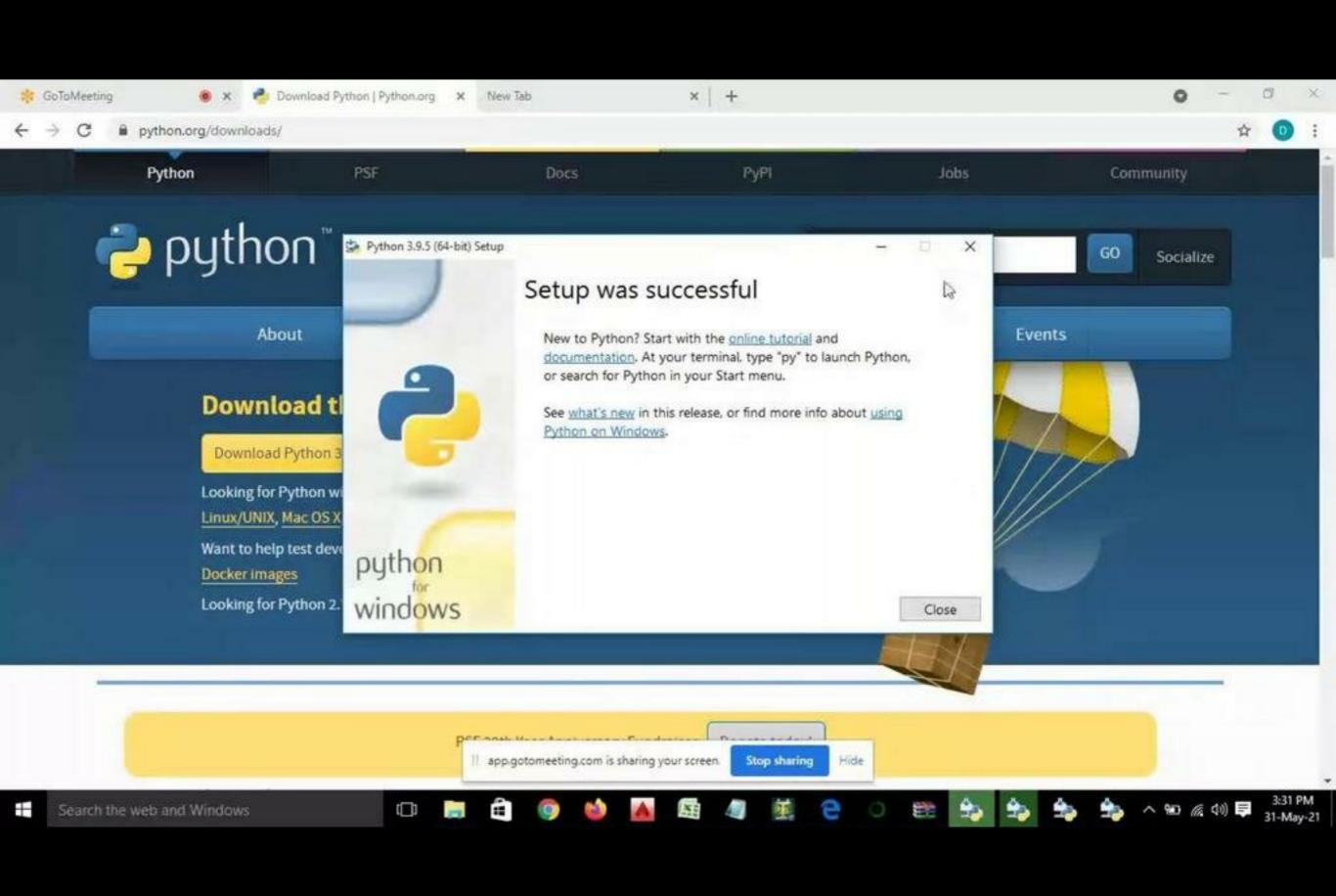


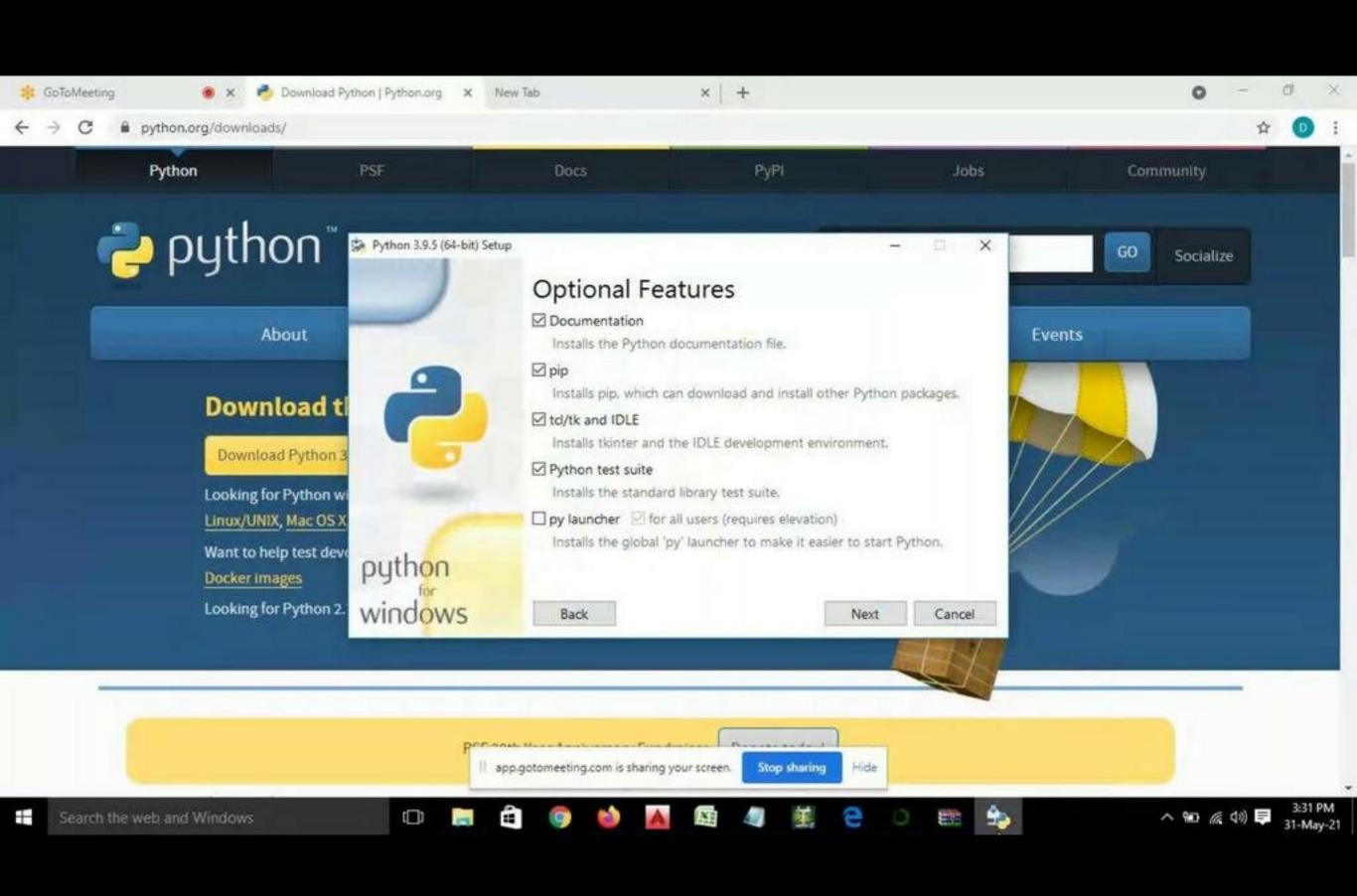


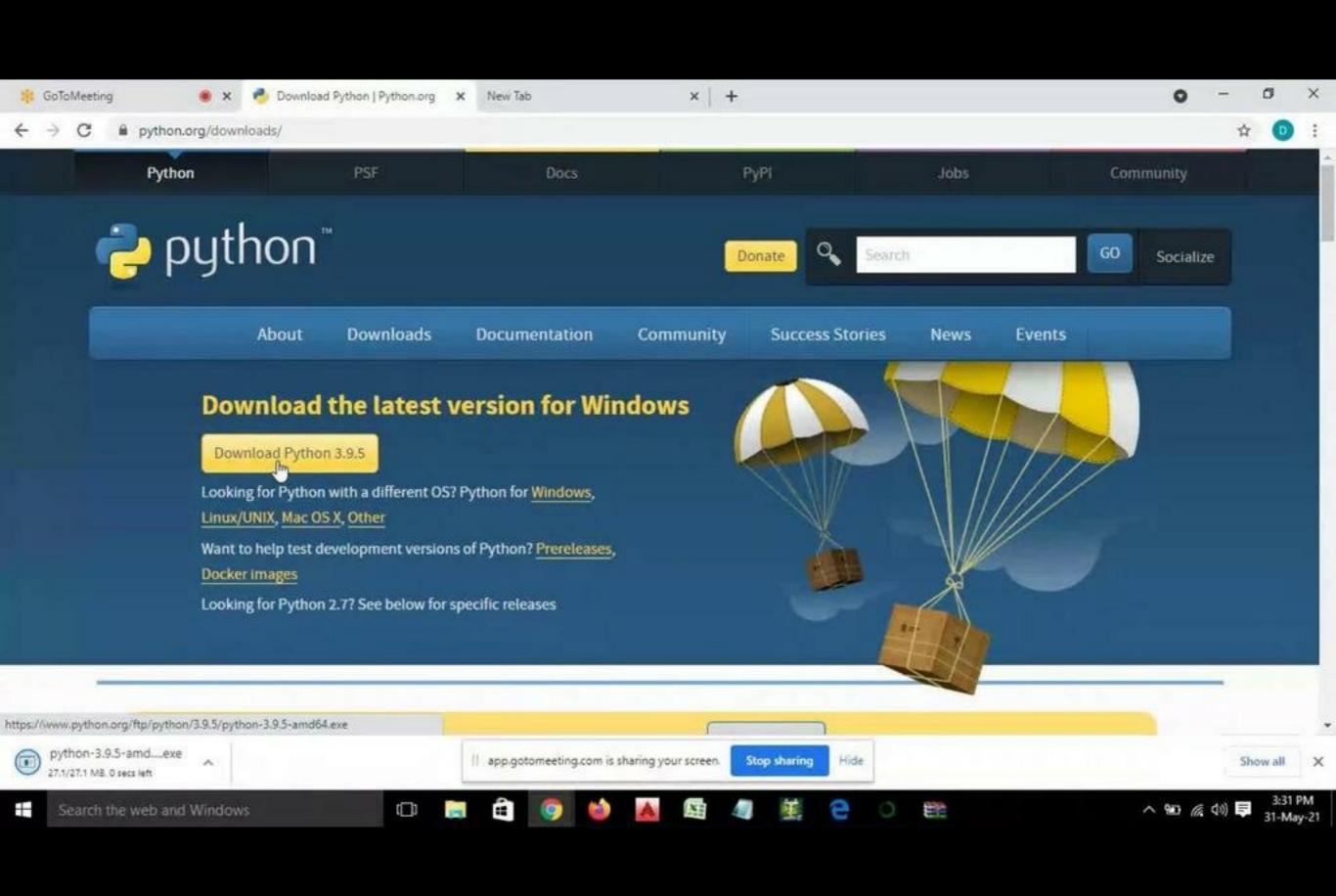


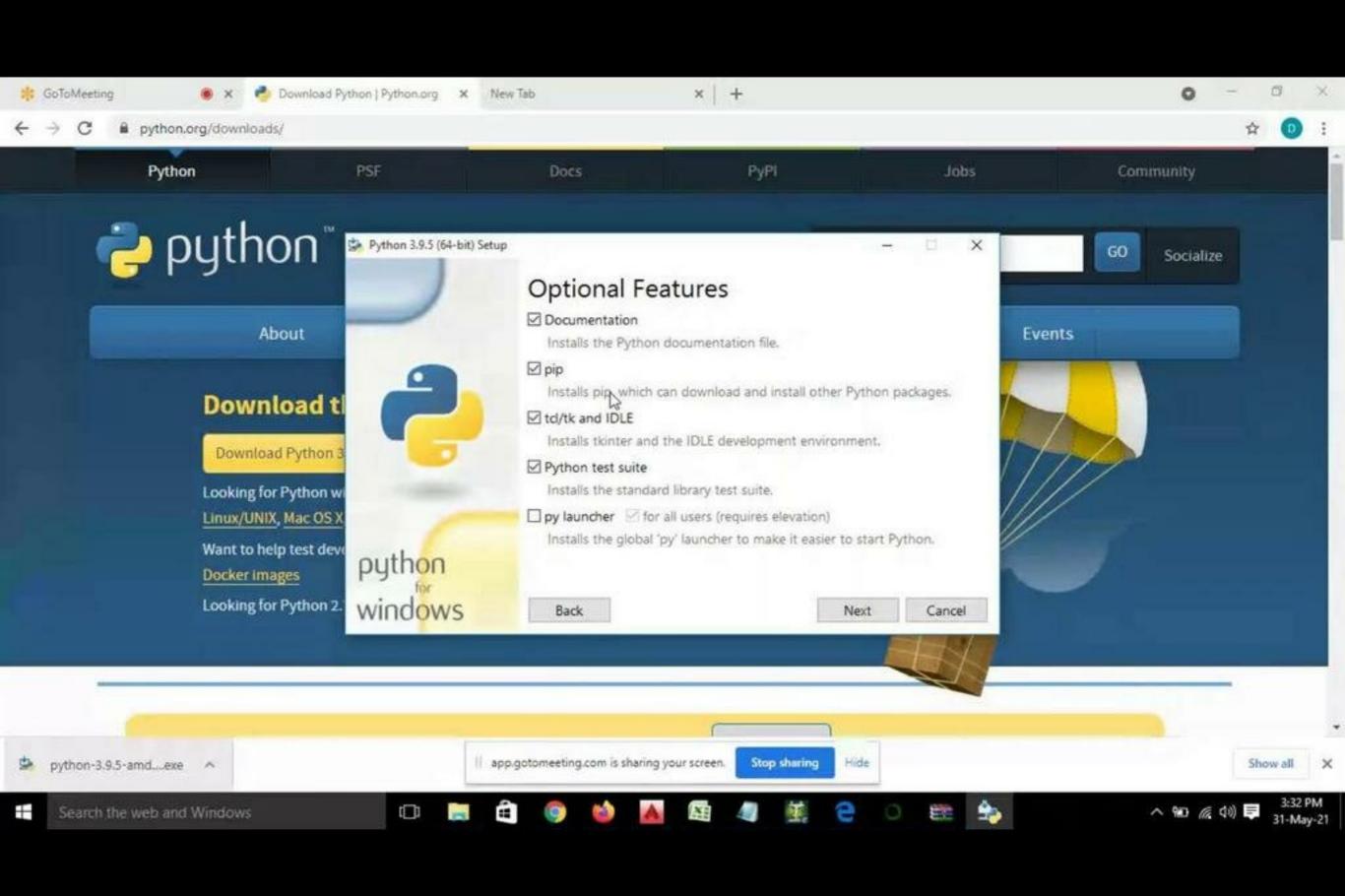


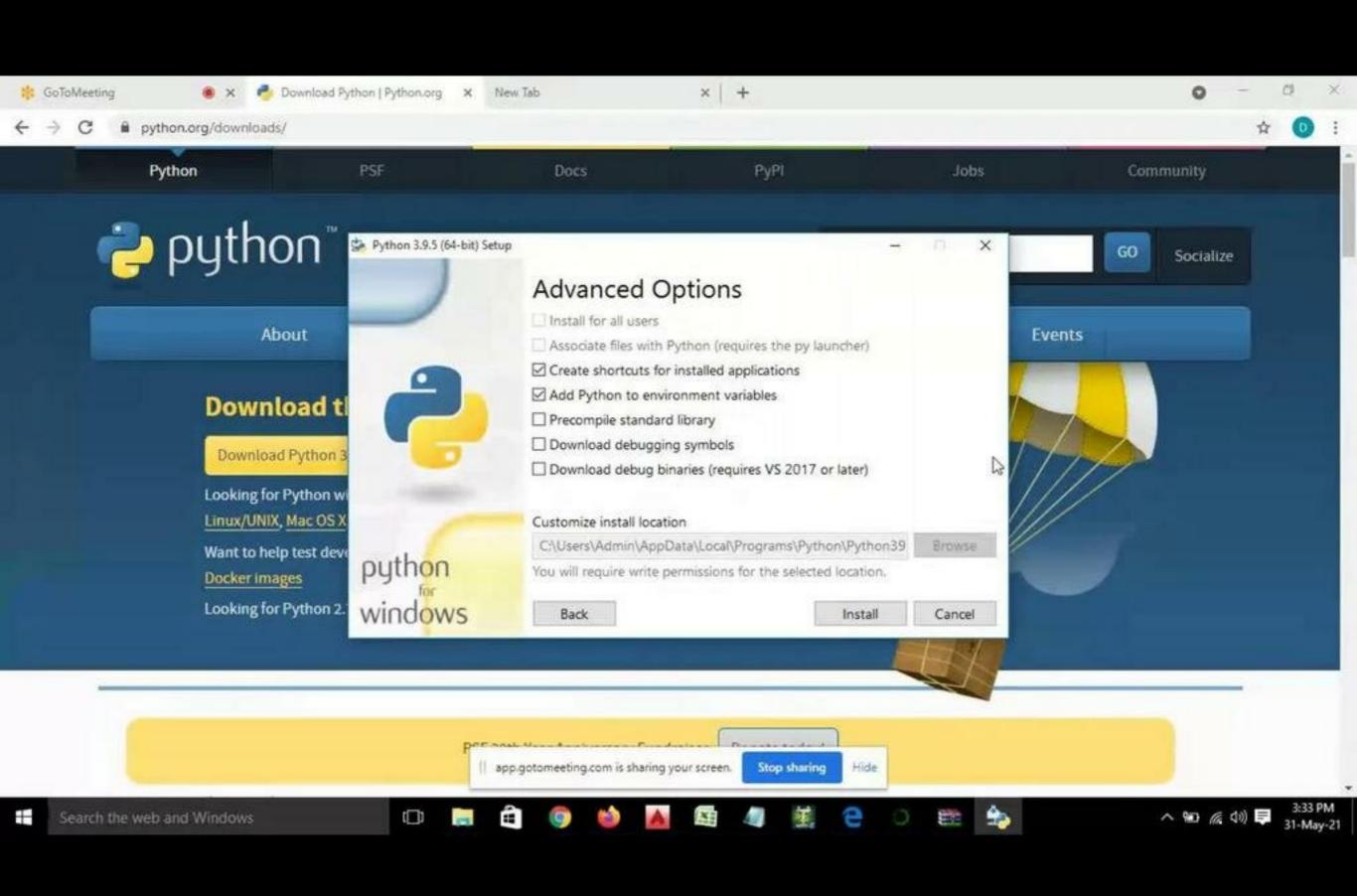


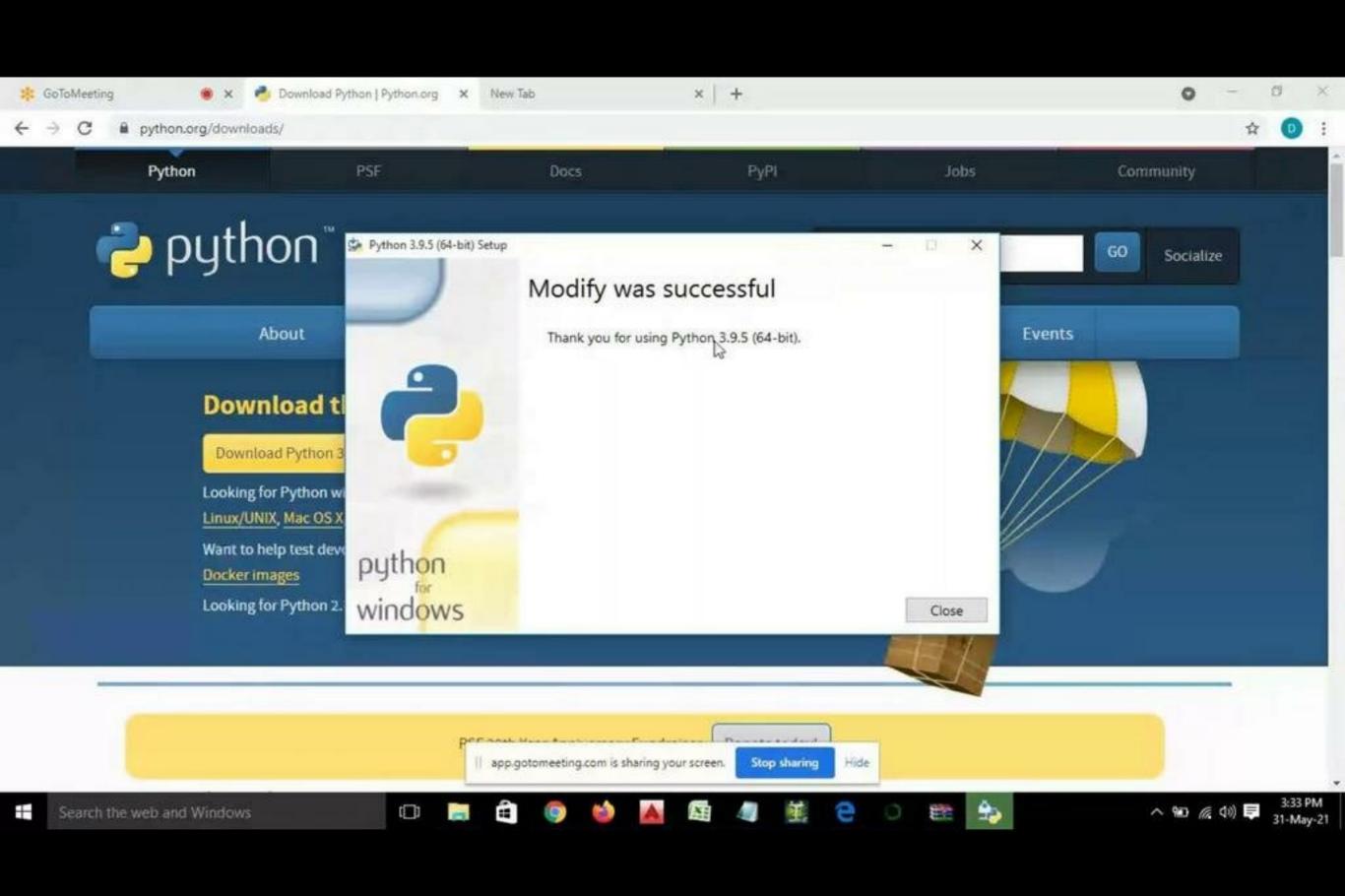


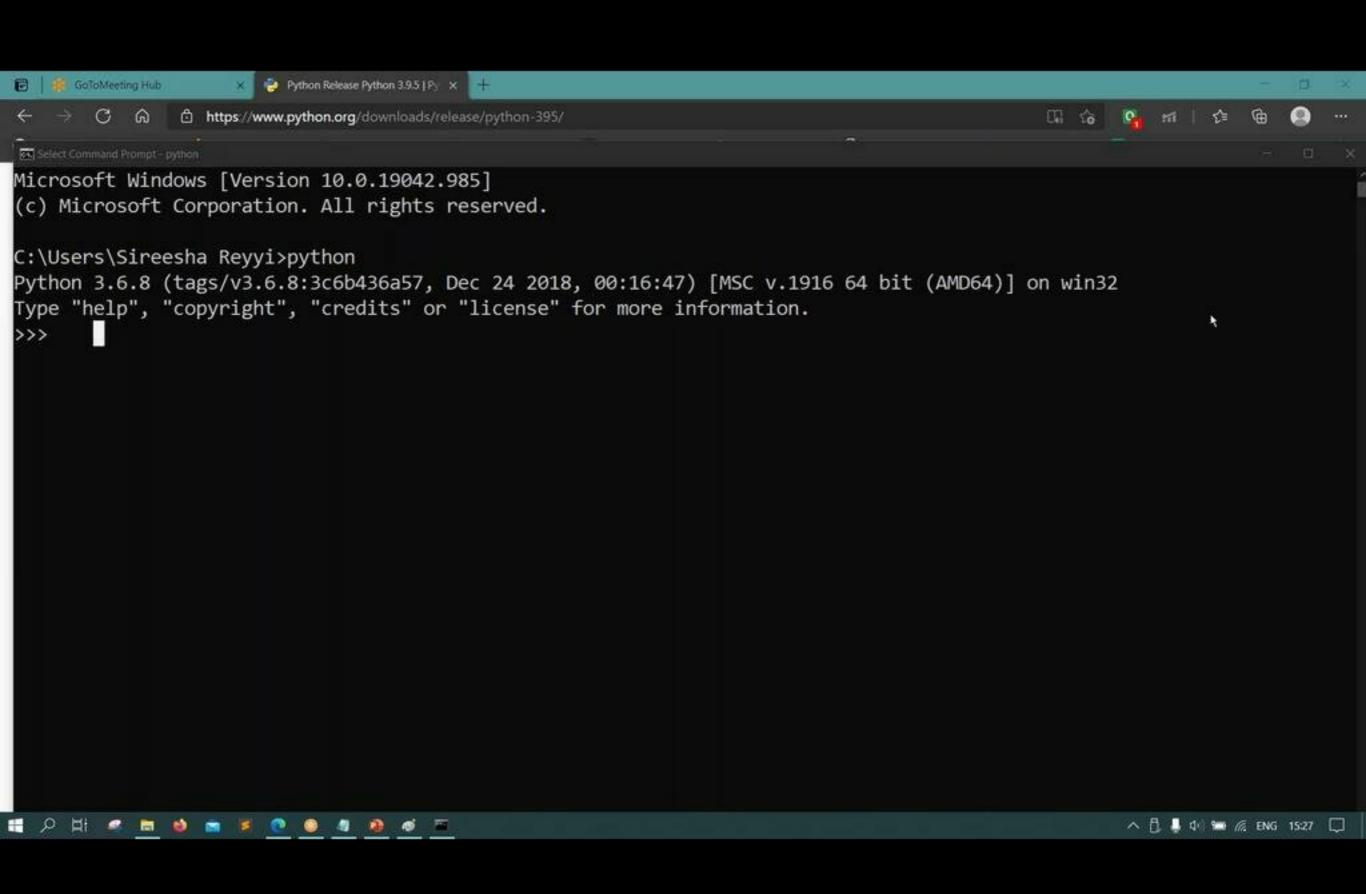


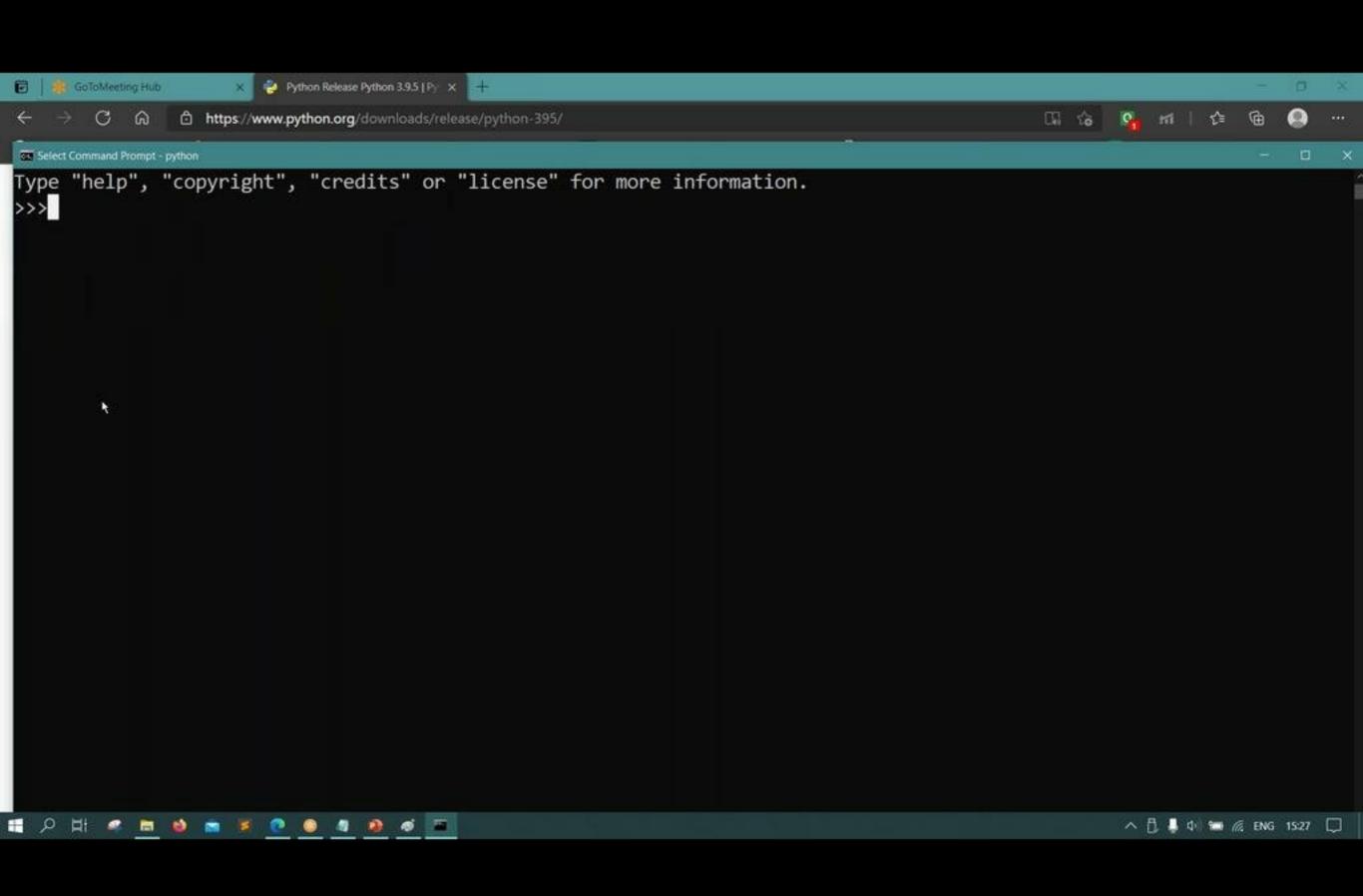


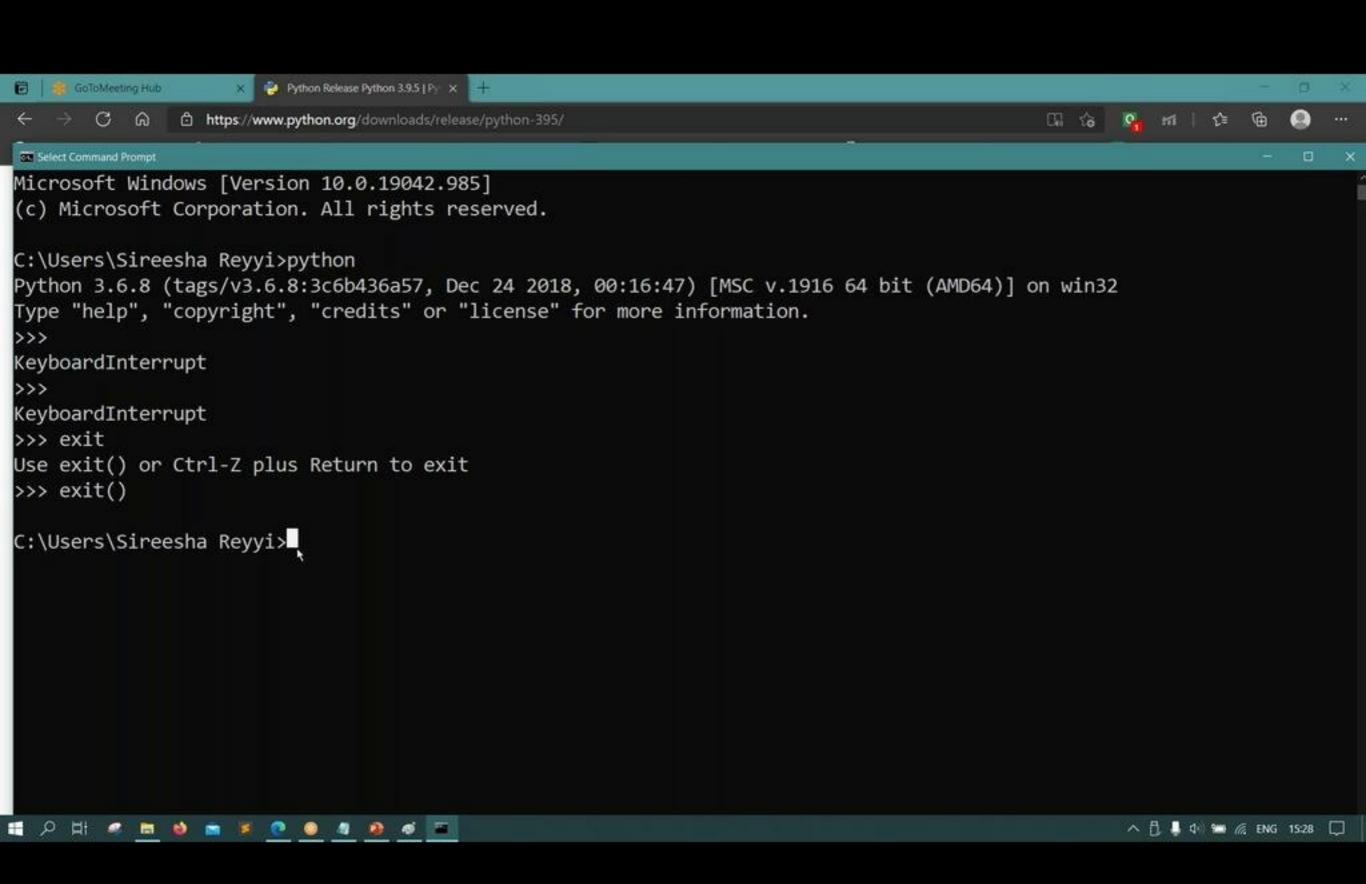












deleted from the memory

Programming: Writing the instructions

Code: The instructions we write

Types of Programming:

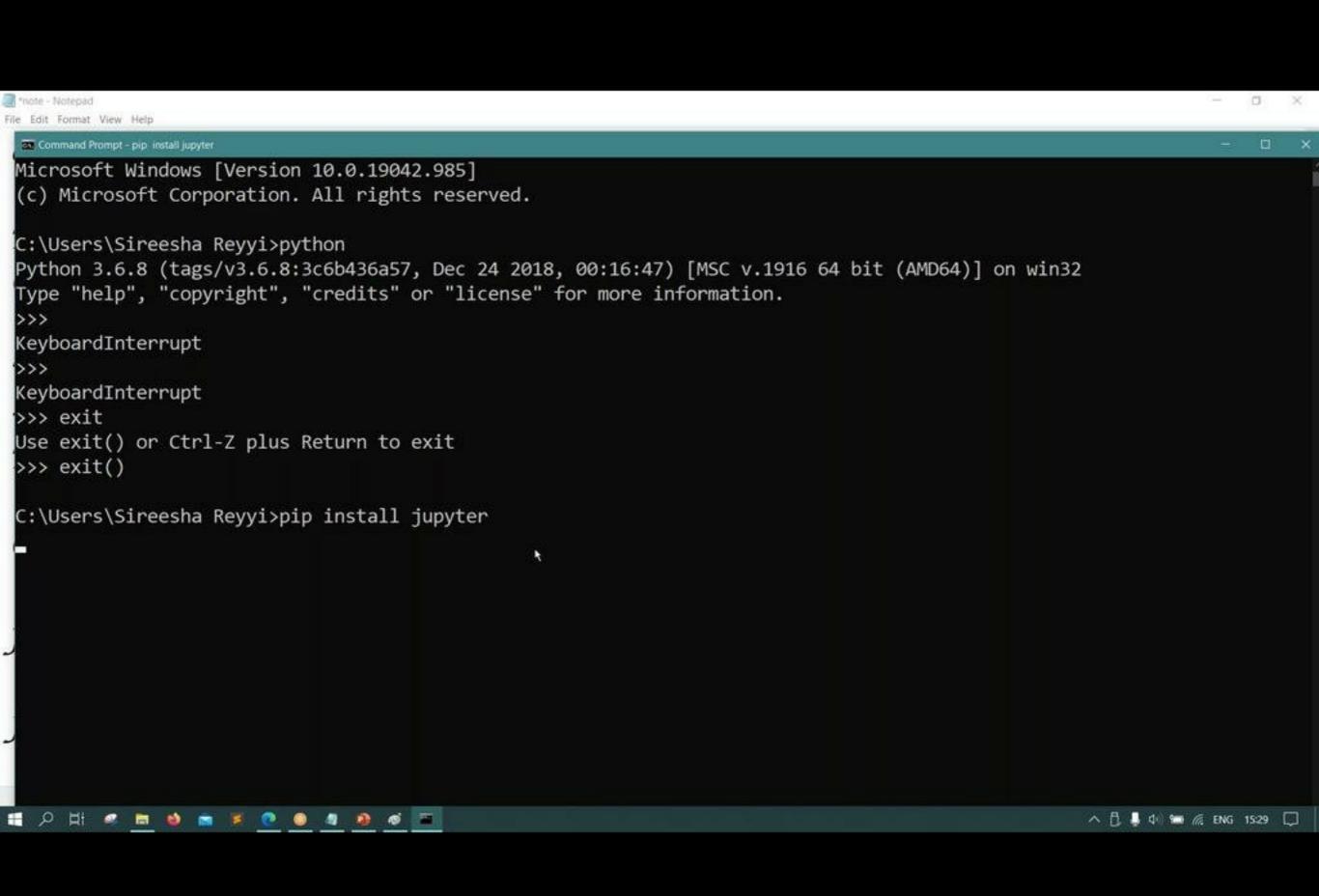
Procedural Programming/Functional: C, Python

Objected Oriented Programming: Python, Java, C++

jupyter notebook:

pip install jupyter notebook





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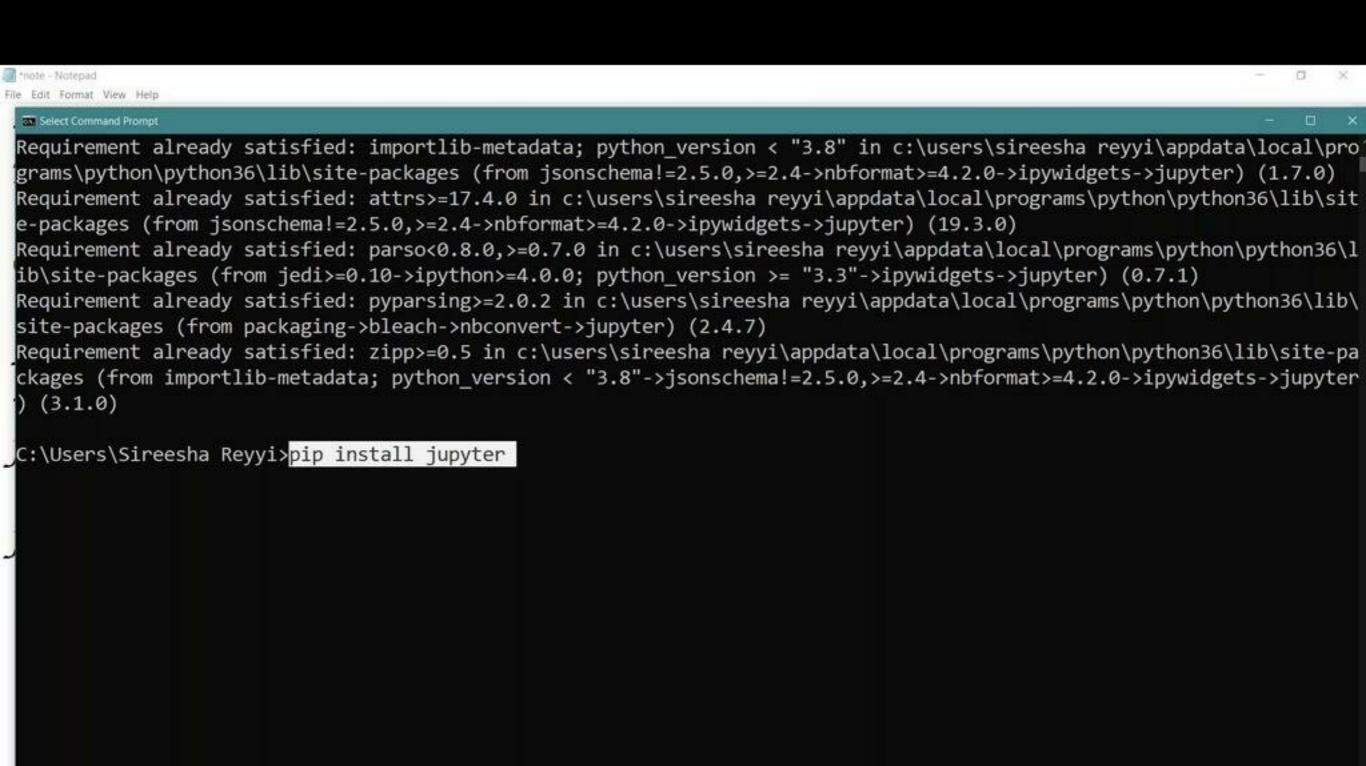
Requirement already satisfied: parso<0.8.0,>=0.7.0 in c:\users\sireesha reyyi\appdata\local\programs\python\python36\l ib\site-packages (from jedi>=0.10->ipython>=4.0.0; python_version >= "3.3"->ipywidgets->jupyter) (0.7.1)

Requirement already satisfied: pyparsing>=2.0.2 in c:\users\sireesha reyyi\appdata\local\programs\python\python36\lib\ site-packages (from packaging->bleach->nbconvert->jupyter) (2.4.7)

Requirement already satisfied: zipp>=0.5 in c:\users\sireesha reyyi\appdata\local\programs\python\python36\lib\site-pa ckages (from importlib-metadata; python_version < "3.8"->jsonschema!=2.5.0,>=2.4->nbformat>=4.2.0->ipywidgets->jupyter (3.1.0)

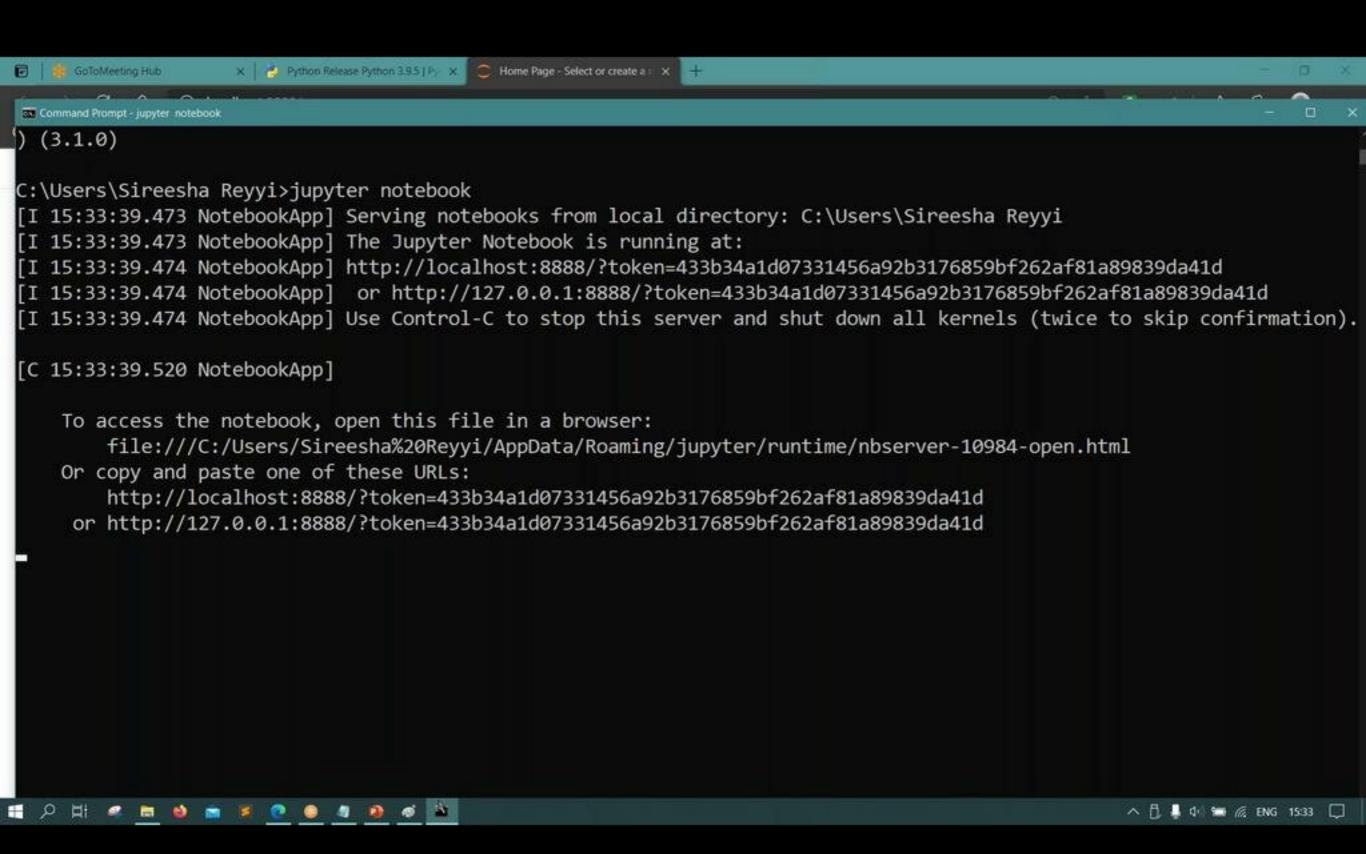


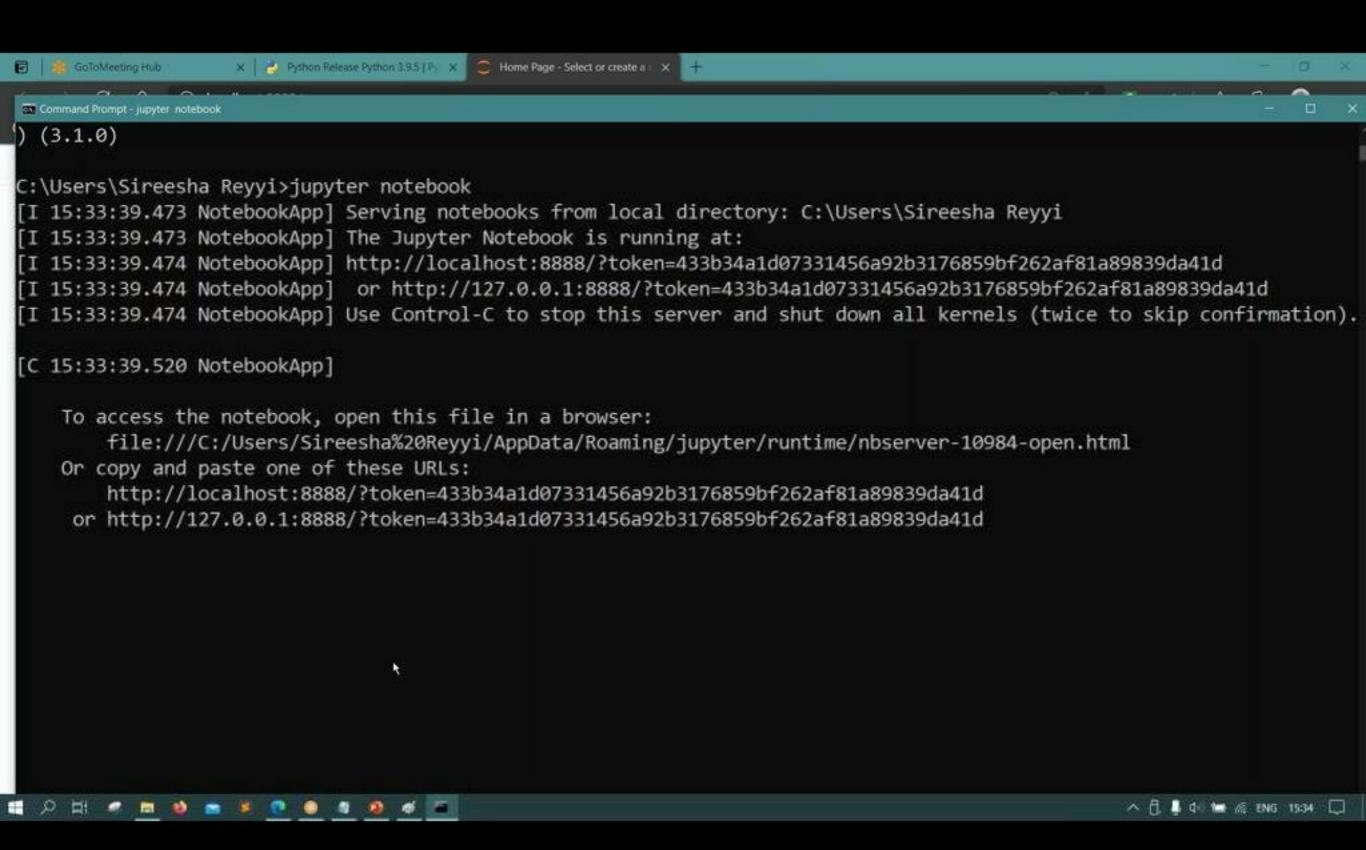
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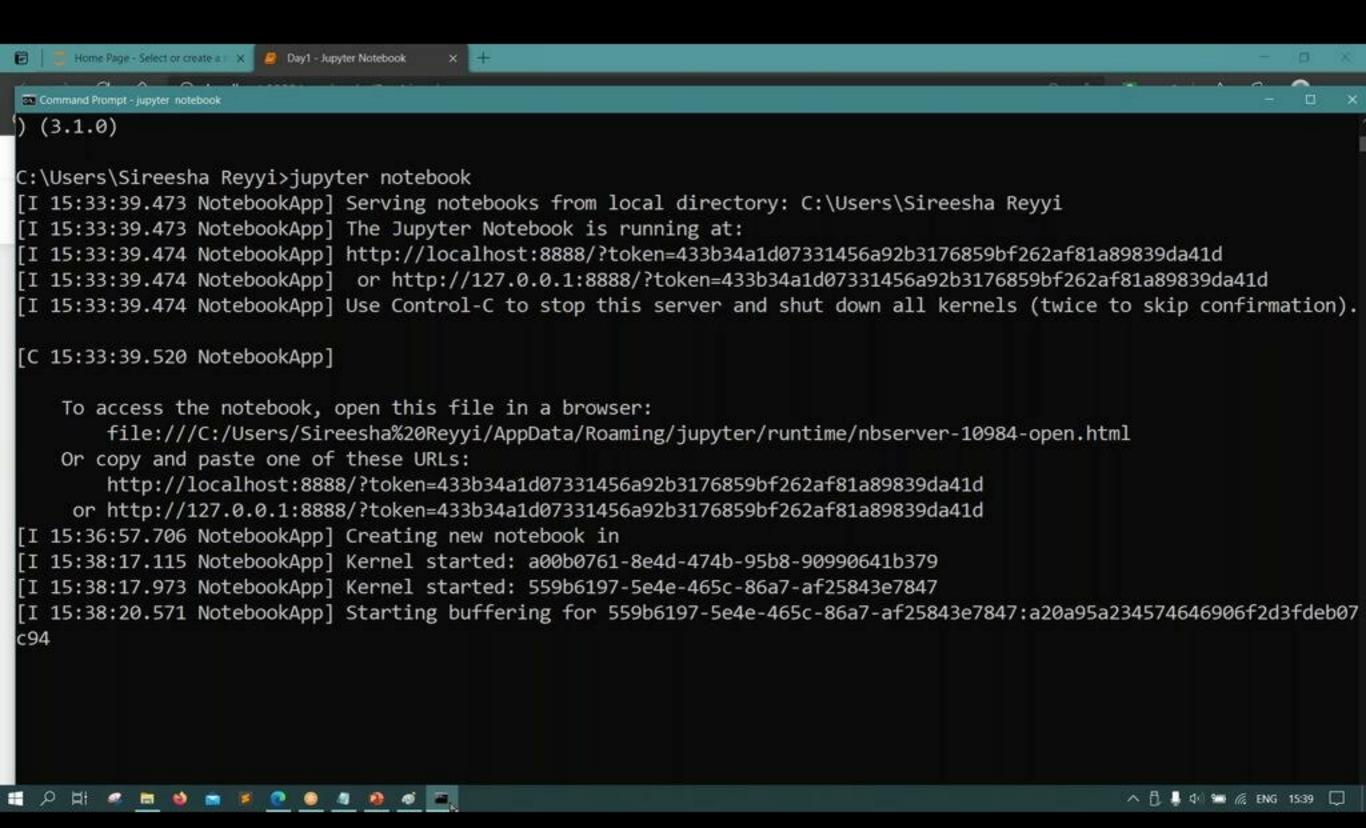


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pip: python package installer

I

pip install jupyter

(pip: python package installer)

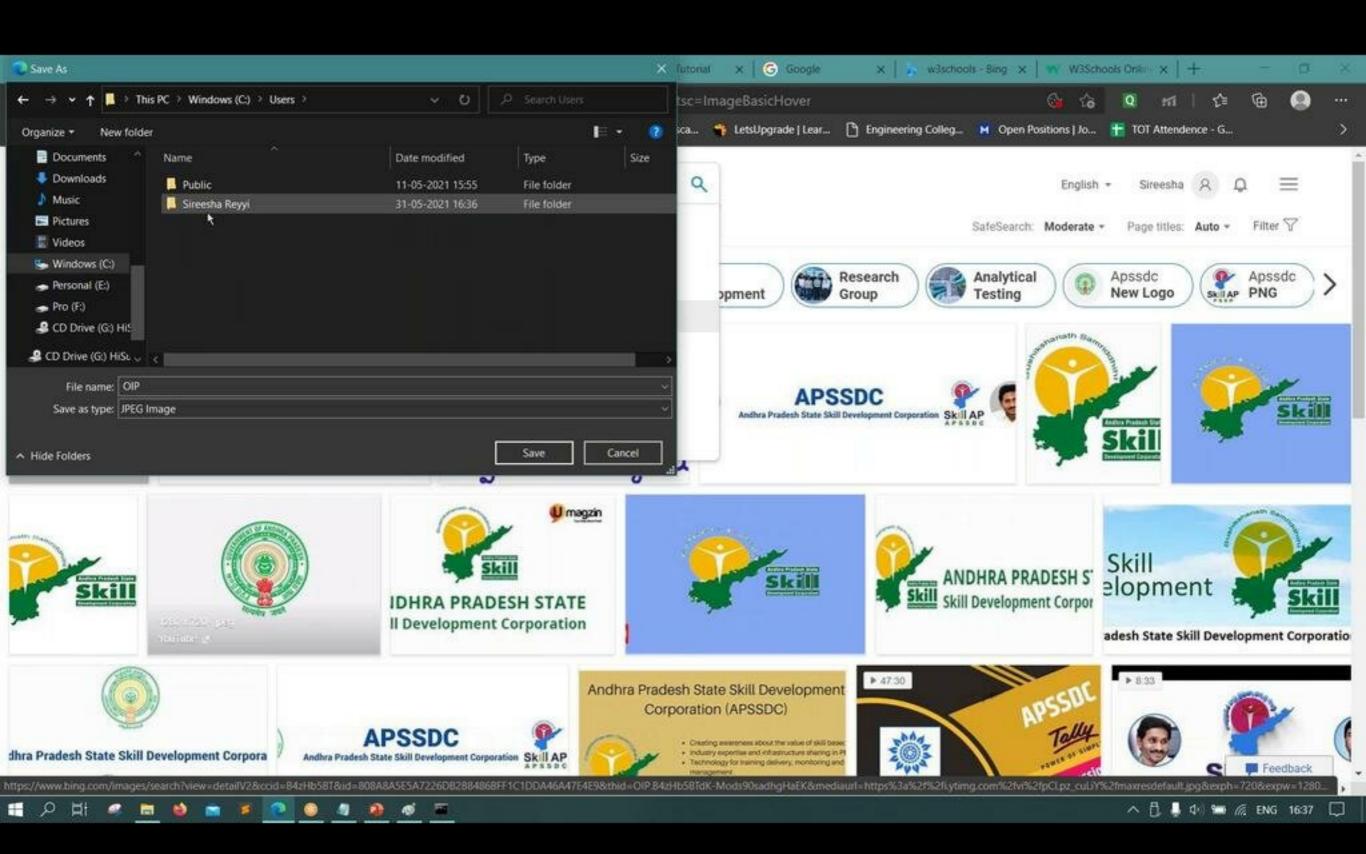
cmd: jupyter notebook

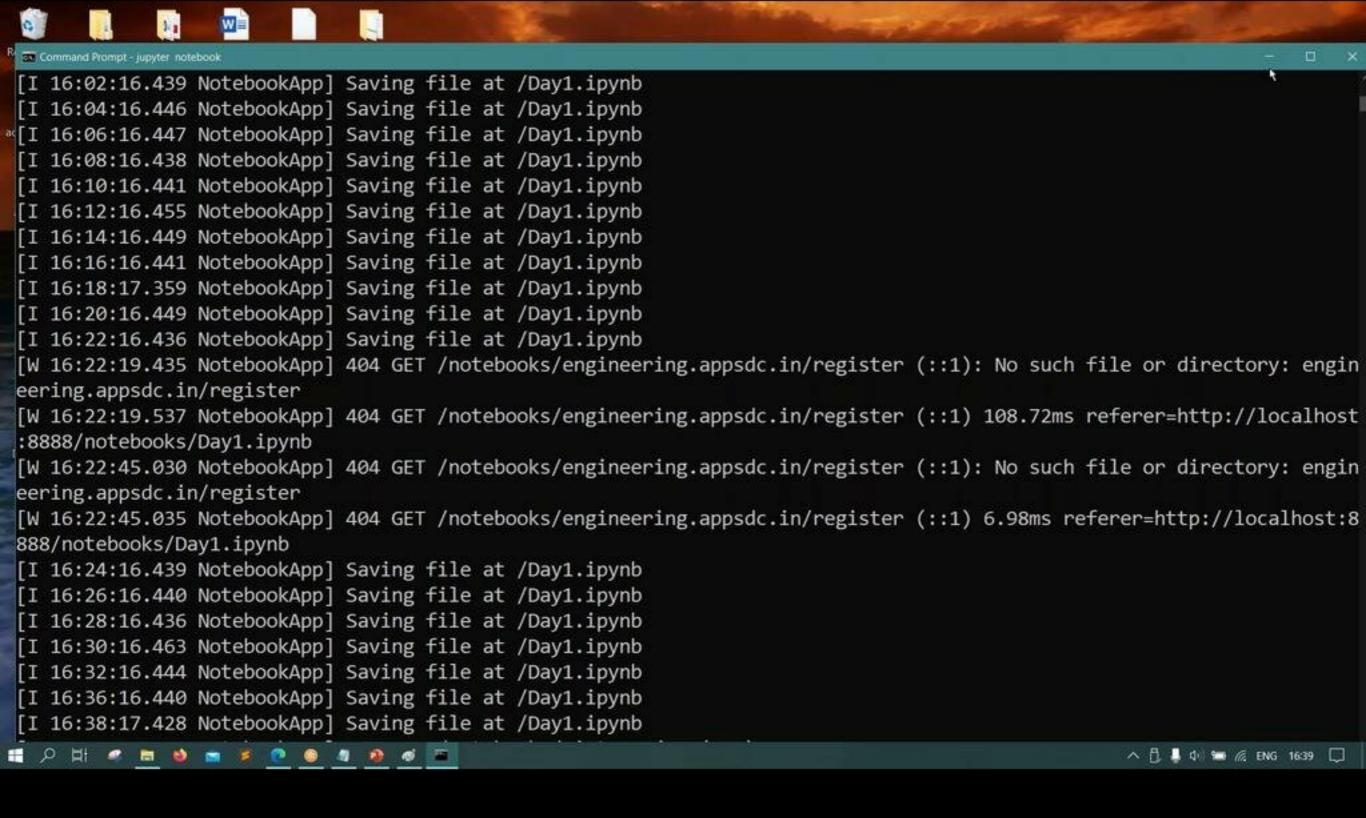
Literate Programming:

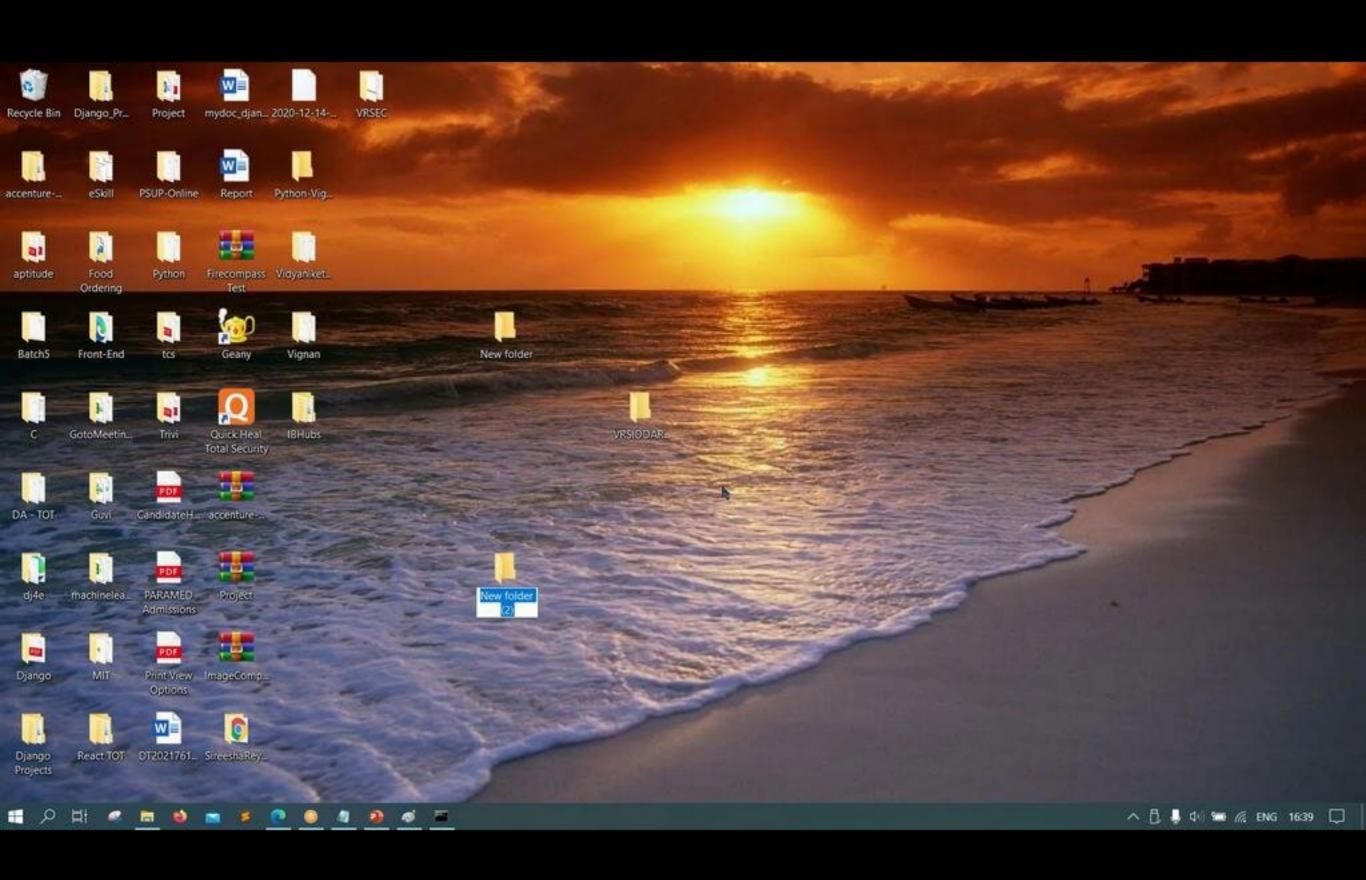
Combination of documentation and code

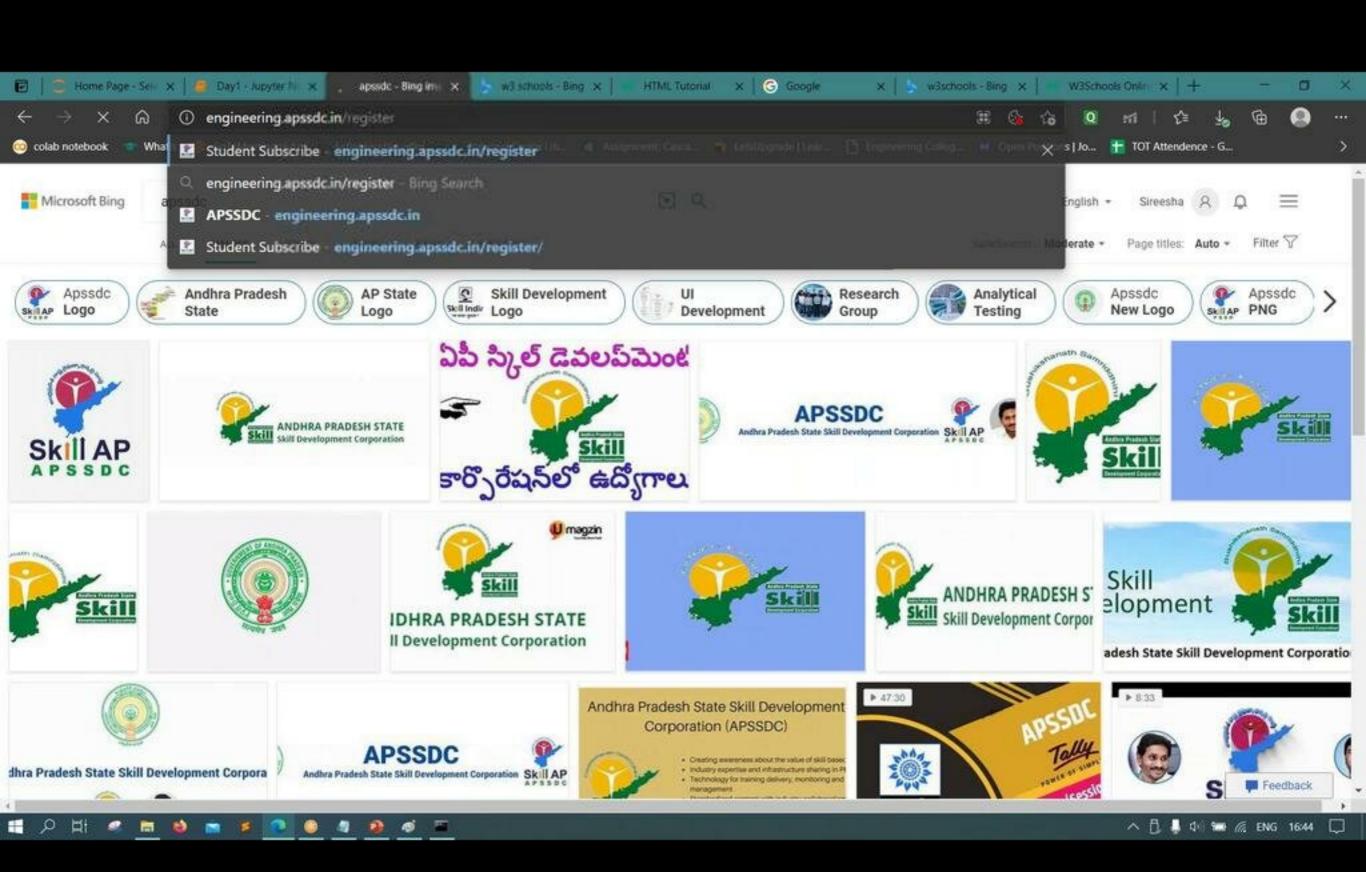


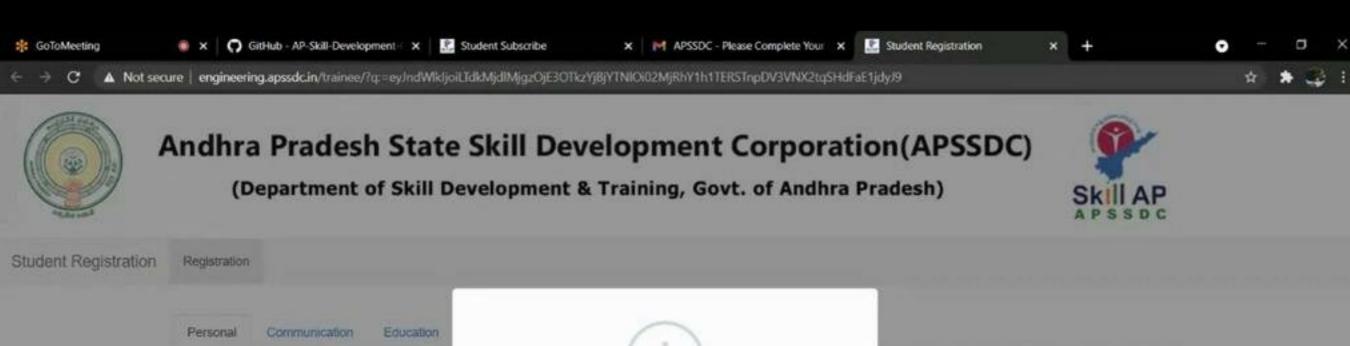
Ln 44, Col 38





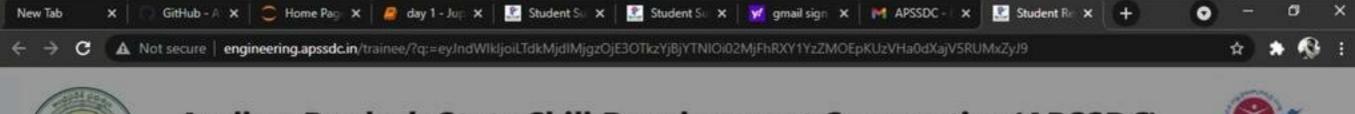










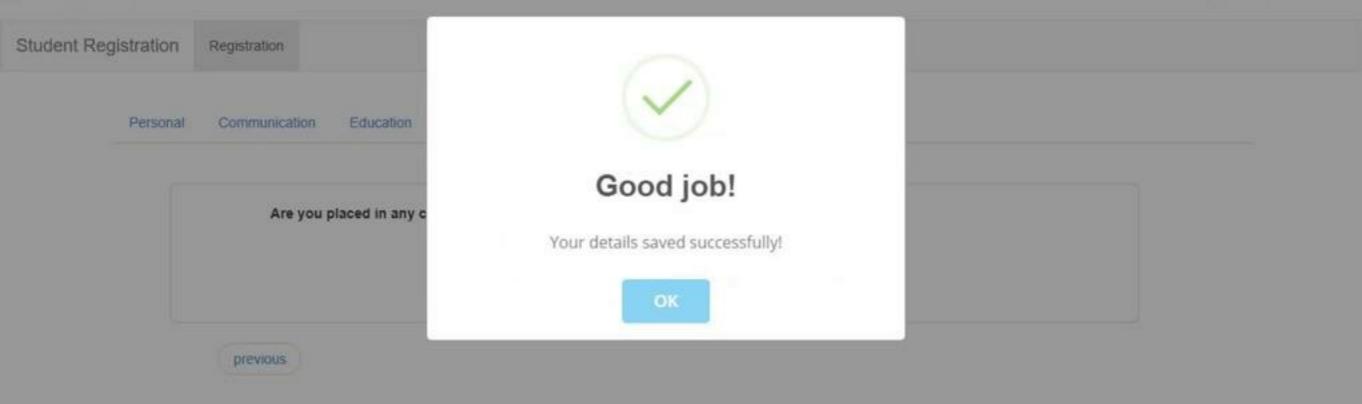




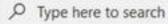
Andhra Pradesh State Skill Development Corporation(APSSDC)



(Department of Skill Development & Training, Govt. of Andhra Pradesh)







































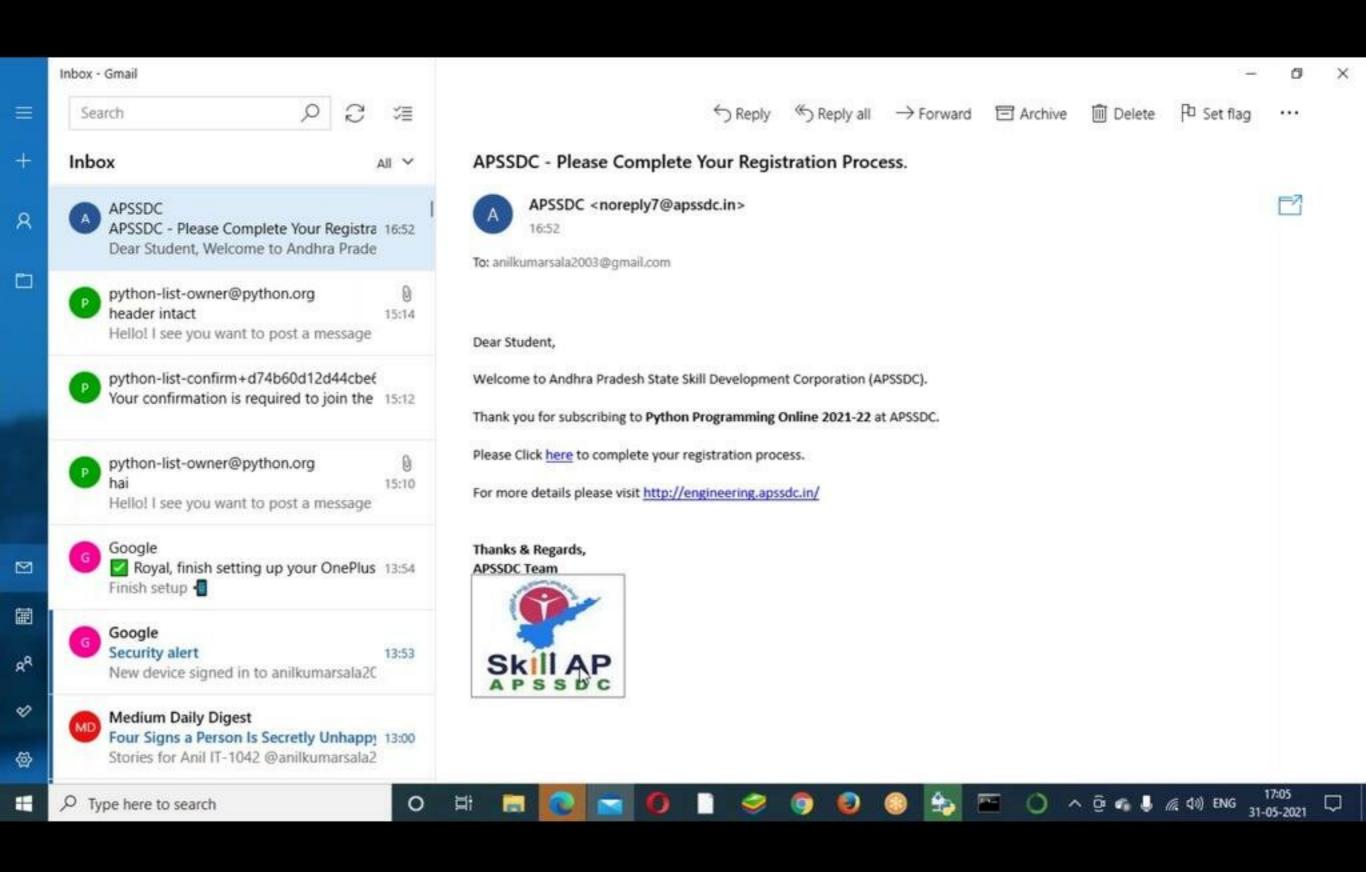


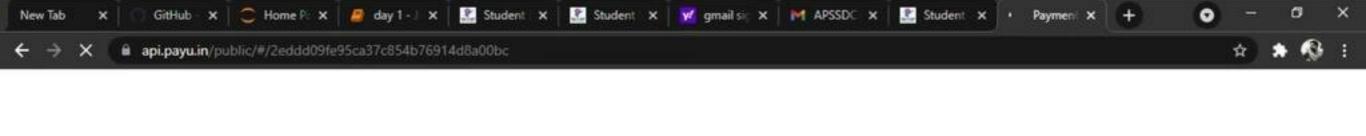












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