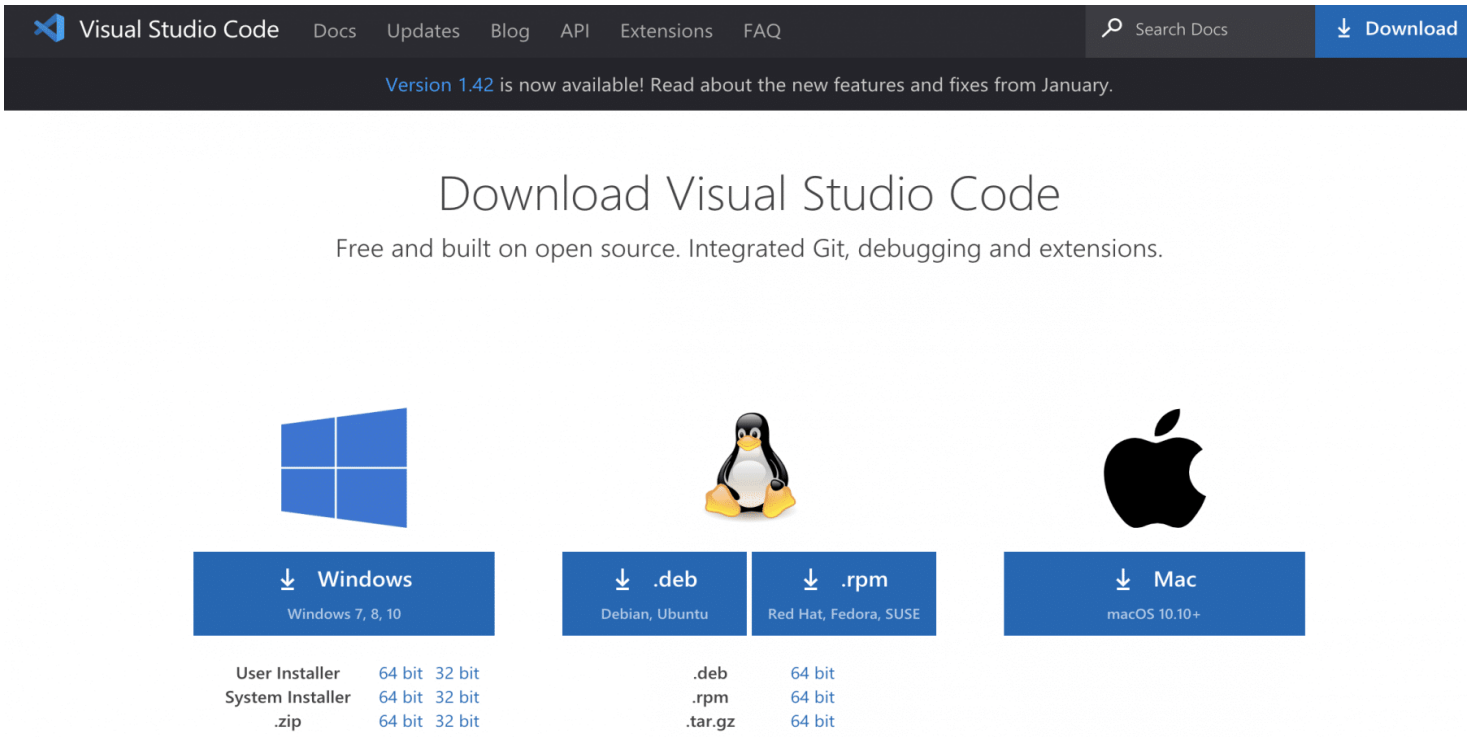
REQUIREMENTS FOR SIXTH SENSE

Downloading VS code:

You can download Visual Studio code from URL

"https://code.visualstudio.com/download" by selecting the right platform**:**



- You can click any of the icons mentioned above, depending on the operating system for which you are planning to download the visual studio code editor.

- Once it is downloaded, run the installer (VSCodeUserSetup-{version}.exe). Then, run the file – it will only take a minute.

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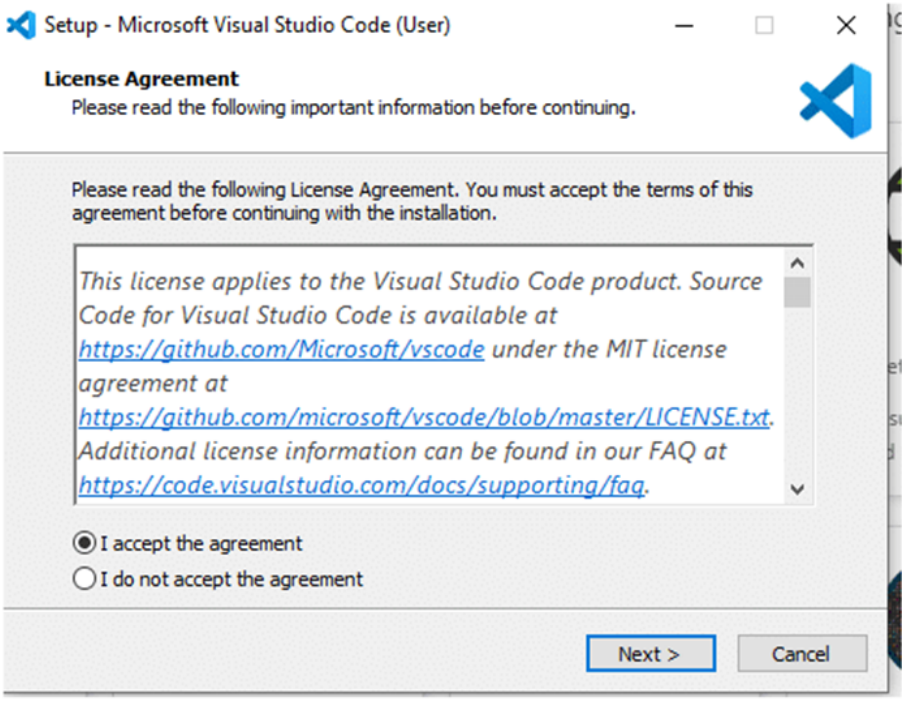
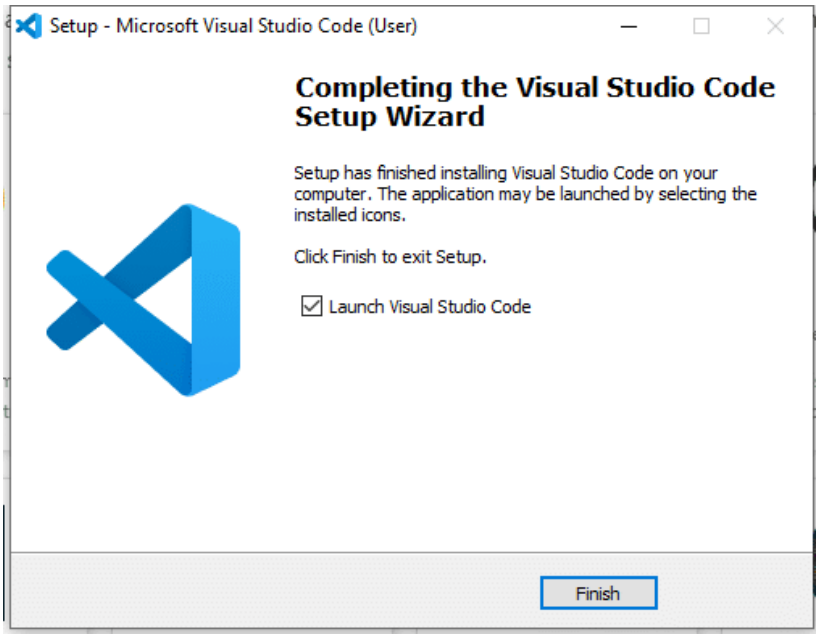


- After accepting all the requests press finish button. By default, VS Code installs under, :

"C:\users{username}\AppData\Local\Programs\Microsoft VS Code."



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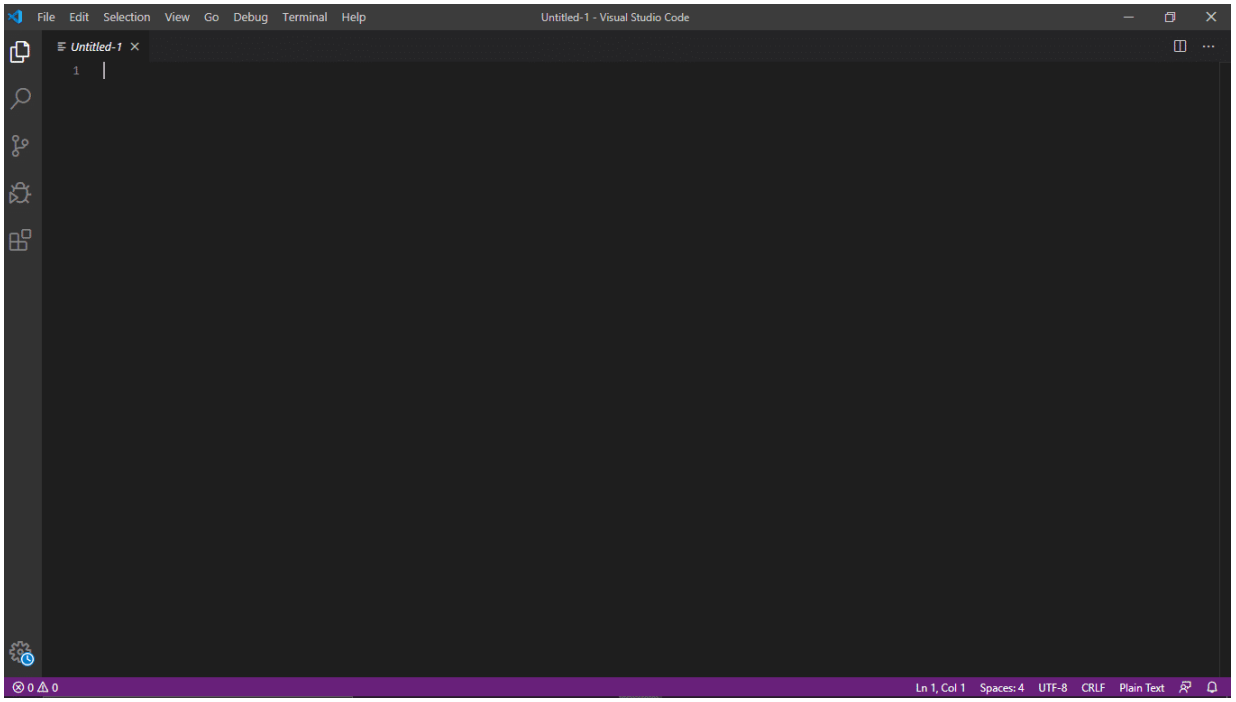
- If the installation is successful, you will see the following:



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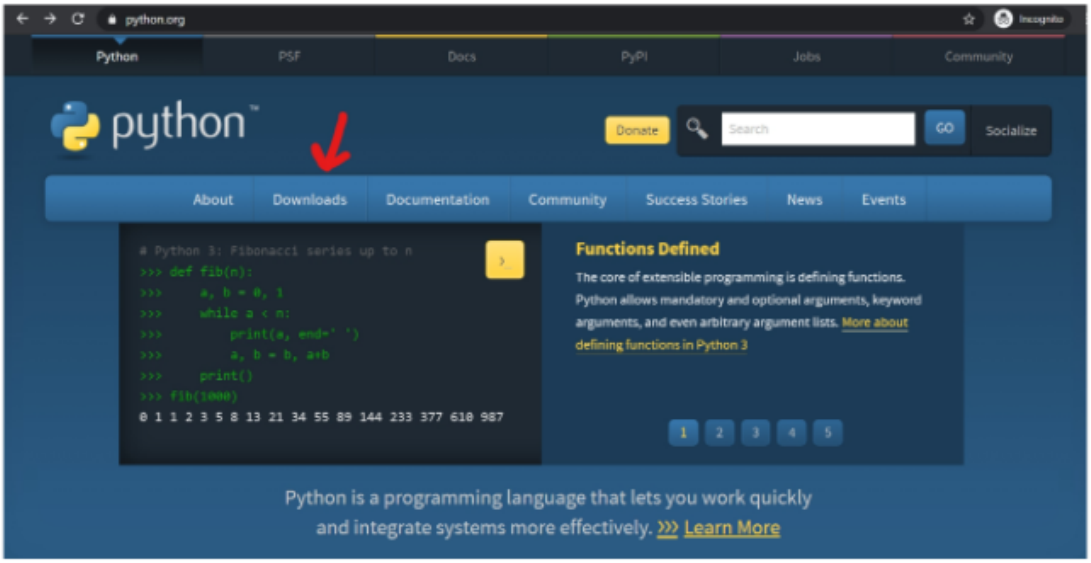
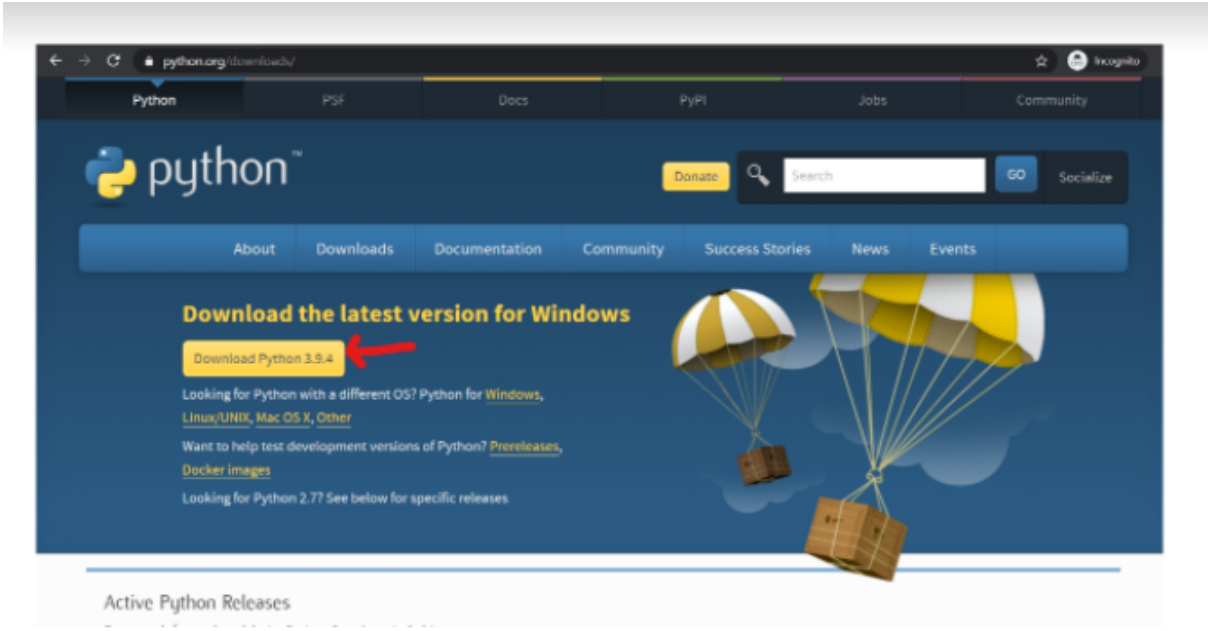
Step 1:

If you do not have python installed go to https://www.python.org/

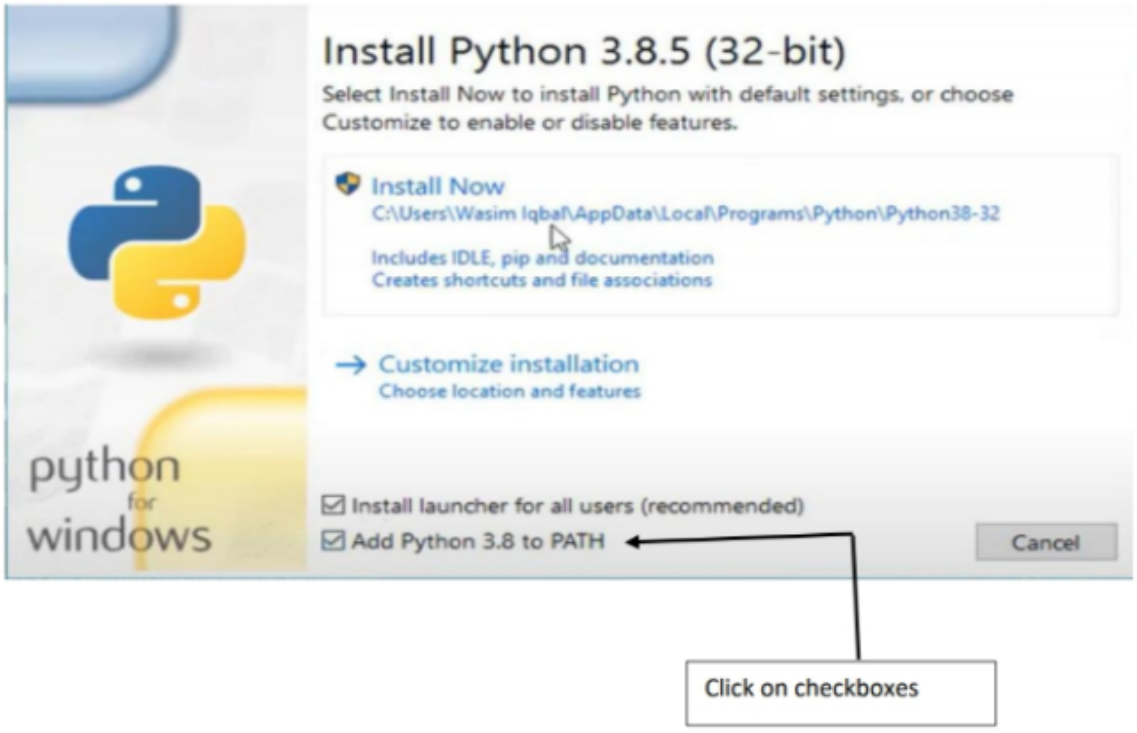


Click on downloads



Click on Download Python 3.9.4

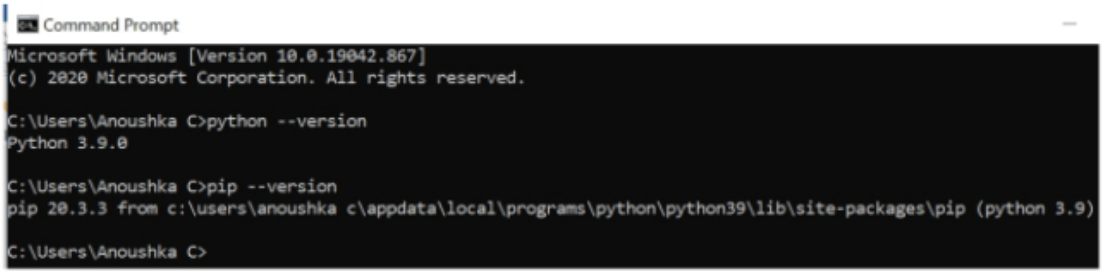
You will see the same kind of window with Python 3.9.4



Step 2:

Now, type the following commands in command prompt to confirm if you have both python and pip

- python --version
- pip --version



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MODULES TO BE DOWNLOADED:

Step 3:

Type the following command in command prompt or in

the terminal of your code editor (VS Code/Pycharm) to get respective modules

1. pip install matplotlib

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```
PS C:\Users\lenovo> pip install matplotlib
Collecting matplotlib
  Downloading matplotlib-3.5.0-cp39-cp39-win_amd64.whl (7.2 MB)
     |████████████████████████████████| 7.2 MB 3.3 MB/s
Collecting fonttools>=4.22.0
  Downloading fonttools-4.28.1-py3-none-any.whl (873 kB)
     |████████████████████████████████| 873 kB 6.8 MB/s
Collecting packaging>=20.0
  Downloading packaging-21.2-py3-none-any.whl (40 kB)
     |████████████████████████████████| 40 kB 366 kB/s
Collecting numpy>=1.17
  Downloading numpy-1.21.4-cp39-cp39-win_amd64.whl (14.0 MB)
     |████████████████████████████████| 14.0 MB 3.2 MB/s
Collecting pyparsing>=2.2.1
  Downloading pyparsing-3.0.6-py3-none-any.whl (97 kB)
     |████████████████████████████████| 97 kB 633 kB/s
Collecting setuptools-scm>=4
  Downloading setuptools_scm-6.3.2-py3-none-any.whl (33 kB)
Collecting kiwisolver>=1.0.1
  Downloading kiwisolver-1.3.2-cp39-cp39-win_amd64.whl (52 kB)
     |████████████████████████████████| 52 kB 34 kB/s
Collecting pillow>=6.2.0
  Downloading Pillow-8.4.0-cp39-cp39-win_amd64.whl (3.2 MB)
     |████████████████████████████████| 3.2 MB ...
Collecting python-dateutil>=2.7
  Downloading python_dateutil-2.8.2-py2.py3-none-any.whl (247 kB)
     |████████████████████████████████| 247 kB 6.4 MB/s
Collecting cycler>=0.10
  Downloading cycler-0.11.0-py3-none-any.whl (6.4 kB)
Collecting tomli>=1.0.0
```

```
Successfully installed cycler-0.11.0 fonttools-4.28.1 kiwisolver-1.3.2 matplotlib-3.5.0 numpy-1.21.4 packaging-21.2 pillow-8.
4.0 pyparsing-3.0.6 python-dateutil-2.8.2 setuptools-scm-6.3.2 six-1.16.0 tomli-1.2.2
```

2. pip install pandas

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```
PS C:\Users\lenovo> pip install pandas
Collecting pandas
  Downloading pandas-1.3.4-cp39-cp39-win_amd64.whl (10.2 MB)
     |████████████████████████████████| 10.2 MB 6.8 MB/s
Requirement already satisfied: python-dateutil>=2.7.3 in c:\users\lenovo\appdata\local\programs\python\python39\lib\site-pack
ages (from pandas) (2.8.2)
Collecting pytz>=2017.3
  Downloading pytz-2021.3-py2.py3-none-any.whl (503 kB)
     |████████████████████████████████| 503 kB 6.4 MB/s
Requirement already satisfied: numpy>=1.17.3 in c:\users\lenovo\appdata\local\programs\python\python39\lib\site-packages (fro
m pandas) (1.21.4)
Requirement already satisfied: six>=1.5 in c:\users\lenovo\appdata\local\programs\python\python39\lib\site-packages (from pyt
hon-dateutil>=2.7.3->pandas) (1.16.0)
Installing collected packages: pytz, pandas
```

3. pip install scikit-learn

```
PS C:\Users\lenovo> pip install scikit-learn
Collecting scikit-learn
  Downloading scikit_learn-1.0.1-cp39-cp39-win_amd64.whl (7.2 MB)
     |████████████████████████████████| 7.2 MB 6.4 MB/s
Collecting threadpoolctl>=2.0.0
  Downloading threadpoolctl-3.0.0-py3-none-any.whl (14 kB)
Collecting scipy>=1.1.0
  Downloading scipy-1.7.2-cp39-cp39-win_amd64.whl (34.3 MB)
     |████████████████████████████████| 34.3 MB 6.8 MB/s
Collecting joblib>=0.11
  Downloading joblib-1.1.0-py2.py3-none-any.whl (306 kB)
     |████████████████████████████████| 306 kB 2.2 MB/s
Requirement already satisfied: numpy>=1.14.6 in c:\users\lenovo\appdata\local\programs\python\python39\lib\site-packages (fro
m scikit-learn) (1.21.4)
Installing collected packages: threadpoolctl, scipy, joblib, scikit-learn
Successfully installed joblib-1.1.0 scikit-learn-1.0.1 scipy-1.7.2 threadpoolctl-3.0.0
```

4. pip install pytest-warnings

```
PS C:\Users\lenovo> pip install pytest-warnings
Collecting pytest-warnings
  Downloading pytest_warnings-0.3.1-py2.py3-none-any.whl (3.7 kB)
Collecting pytest
  Downloading pytest-6.2.5-py3-none-any.whl (280 kB)
     |████████████████████████████████| 280 kB 3.3 MB/s
Collecting pluggy<2.0,>=0.12
  Downloading pluggy-1.0.0-py2.py3-none-any.whl (13 kB)
Collecting atomicwrites>=1.0
  Downloading atomicwrites-1.4.0-py2.py3-none-any.whl (6.8 kB)
Collecting colorama
  Downloading colorama-0.4.4-py2.py3-none-any.whl (16 kB)
Collecting iniconfig
  Downloading iniconfig-1.1.1-py2.py3-none-any.whl (5.0 kB)
Collecting toml
  Downloading toml-0.10.2-py2.py3-none-any.whl (16 kB)
Collecting py>=1.8.2
  Downloading py-1.11.0-py2.py3-none-any.whl (98 kB)
     |████████████████████████████████| 98 kB 1.0 MB/s
Collecting attrs>=19.2.0
  Downloading attrs-21.2.0-py2.py3-none-any.whl (53 kB)
     |████████████████████████████████| 53 kB 297 kB/s
Requirement already satisfied: packaging in c:\users\lenovo\appdata\local\programs\python\python39\lib\site-packages (from py
test->pytest-warnings) (21.2)
Collecting pyparsing<3,>=2.0.2
  Using cached pyparsing-2.4.7-py2.py3-none-any.whl (67 kB)
Installing collected packages: pyparsing, toml, py, pluggy, iniconfig, colorama, attrs, atomicwrites, pytest, pytest-warnings
  Attempting uninstall: pyparsing
    Found existing installation: pyparsing 3.0.6
    Uninstalling pyparsing-3.0.6:
      Successfully uninstalled pyparsing-3.0.6
Successfully installed atomicwrites-1.4.0 attrs-21.2.0 colorama-0.4.4 iniconfig-1.1.1 pluggy-1.0.0 py-1.11.0 pyparsing-2.4.7
pytest-6.2.5 pytest-warnings-0.3.1 toml-0.10.2
```

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5. pip install opencv-contrib-python

```
PS C:\Users\lenovo> pip install opencv-contrib-python
Collecting opencv-contrib-python
  Using cached opencv_contrib_python-4.5.4.58-cp39-cp39-win_amd64.whl (42.0 MB)
Requirement already satisfied: numpy>=1.19.3 in c:\users\lenovo\appdata\local\programs\python\python39\lib\site-packages (from opencv-contrib-p
ython) (1.21.4)
Installing collected packages: opencv-contrib-python
Successfully installed opencv-contrib-python-4.5.4.58
```

6. pip install pyautogui

```
PS C:\Users\lenovo> pip install pyautogui
Collecting pyautogui
  Downloading PyAutoGUI-0.9.53.tar.gz (59 kB)
     |████████████████████████████████| 59 kB 664 kB/s
  Preparing metadata (setup.py) ... done
Collecting pymsgbox
  Using cached PyMsgBox-1.0.9-py3-none-any.whl
Collecting PyTweening>=1.0.1
  Downloading pytweening-1.0.4.tar.gz (14 kB)
  Preparing metadata (setup.py) ... done
Collecting pyscreeze>=0.1.21
  Downloading PyScreeze-0.1.28.tar.gz (25 kB)
  Installing build dependencies ... done
  Getting requirements to build wheel ... done
  Preparing metadata (pyproject.toml) ... done
Collecting pygetwindow>=0.0.5
  Using cached PyGetWindow-0.0.9.tar.gz (9.7 kB)
  Preparing metadata (setup.py) ... done
Collecting mouseinfo
  Using cached MouseInfo-0.1.3.tar.gz (10 kB)
  Preparing metadata (setup.py) ... done
Collecting pyrect
  Using cached PyRect-0.1.4.tar.gz (15 kB)
  Preparing metadata (setup.py) ... done
Collecting pyperclip
  Using cached pyperclip-1.8.2.tar.gz (20 kB)
```

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```
  Preparing metadata (setup.py) ... done
Using legacy 'setup.py install' for pyautogui, since package 'wheel' is not installed.
Using legacy 'setup.py install' for pygetwindow, since package 'wheel' is not installed.
Using legacy 'setup.py install' for PyTweening, since package 'wheel' is not installed.
Using legacy 'setup.py install' for mouseinfo, since package 'wheel' is not installed.
Using legacy 'setup.py install' for pyperclip, since package 'wheel' is not installed.
Using legacy 'setup.py install' for pyrect, since package 'wheel' is not installed.
Building wheels for collected packages: pyscreeze
  Building wheel for pyscreeze (pyproject.toml) ... done
  Created wheel for pyscreeze: filename=PyScreeze-0.1.28-py3-none-any.whl size=13023 sha256=3b9f81487226b4a2bda24148161bfc6d63c35b85e5577a9ded4
d8e7530c4d0f3
  Stored in directory: c:\users\lenovo\appdata\local\pip\cache\wheels\a2\5b\86\99f1d8fac5d92de0ccb3f0d4ad15e3f4278baf75a9b0f20b93
Successfully built pyscreeze
Installing collected packages: pyrect, pyperclip, PyTweening, pyscreeze, pymsgbox, pygetwindow, mouseinfo, pyautogui
    Running setup.py install for pyrect ... done
    Running setup.py install for pyperclip ... done
    Running setup.py install for PyTweening ... done
    Running setup.py install for pygetwindow ... done
    Running setup.py install for mouseinfo ... done
    Running setup.py install for pyautogui ... done
Successfully installed PyTweening-1.0.4 mouseinfo-0.1.3 pyautogui-0.9.53 pygetwindow-0.0.9 pymsgbox-1.0.9 pyperclip-1.8.2 pyrect-0.1.4 pyscreez
e-0.1.28
```

7. pip install imutils

```
PS C:\Users\lenovo> pip install imutils
Collecting imutils
  Downloading imutils-0.5.4.tar.gz (17 kB)
  Preparing metadata (setup.py) ... done
Using legacy 'setup.py install' for imutils, since package 'wheel' is not installed.
Installing collected packages: imutils
    Running setup.py install for imutils ... done
Successfully installed imutils-0.5.4
```

Once you have done everything mentioned above, you are good to go. Great Job! If you were able to do all the above steps, give yourself a pat on the back. See you there at Sixth Sense!