Faculty of Technology and Engineering

U & P U. Patel Department of Computer Engineering
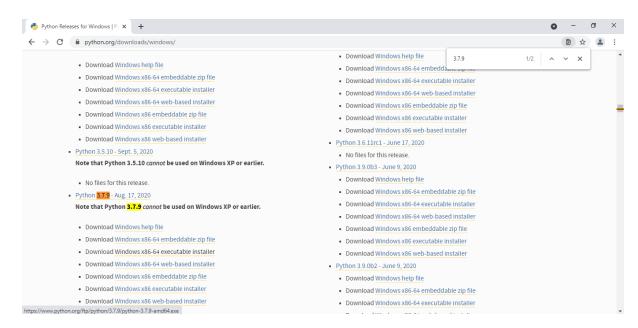
Date: 01 / 12 / 2021

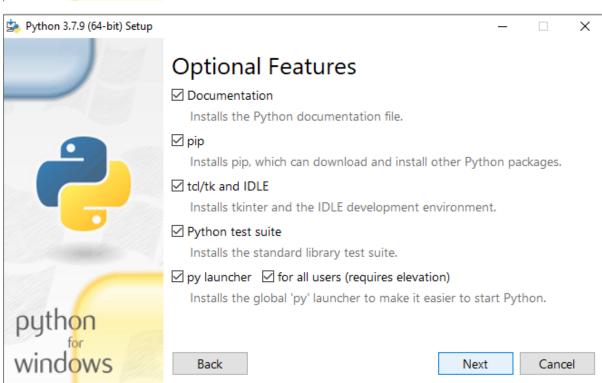## Practical List

Academic Year	:	2021-22	Semester	:	4
Course code	:	CE259	Course name	:	Programming in Python

AIM : INSTALLATION & CONFIGURATION PYTHON

➢ **INSTALLATION & CONFIGURATION PYTHON (3.6 OR 3.7).**

Python 3.7.9 (64-bit) Setup

Advanced Options

☐ Install for all users
☑ Associate files with Python (requires the py launcher)
☑ Create shortcuts for installed applications
☑ Add Python to environment variables
☐ Precompile standard library
☐ Download debugging symbols
☐ Download debug binaries (requires VS 2015 or later)

Customize install location

C:\Program Files (x86)\python   [Browse]

You will require write permissions for the selected location.

[Back]   [Install]   [Cancel]

Python 3.7.9 (64-bit) Setup

Setup Progress

Installing:

Python 3.7.9 Standard Library (64-bit)

Cancel

Python 3.7.9 (64-bit) Setup

Setup was successful

Special thanks to Mark Hammond, without whose years of freely shared Windows expertise, Python for Windows would still be Python for DOS.

New to Python? Start with the online tutorial and documentation.

See what's new in this release.

🛡 Disable path length limit
Changes your machine configuration to allow programs, including Python, to bypass the 260 character "MAX_PATH" limitation.

Close
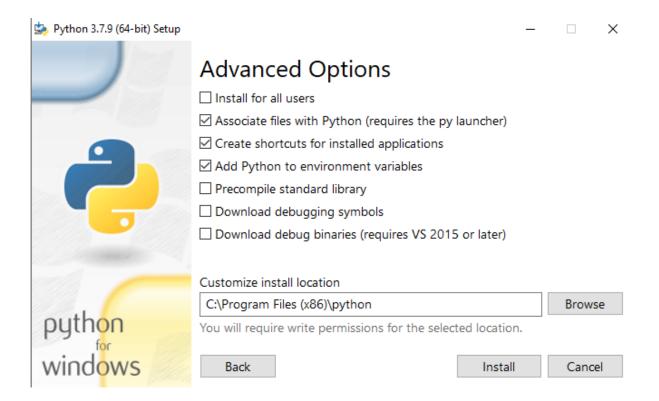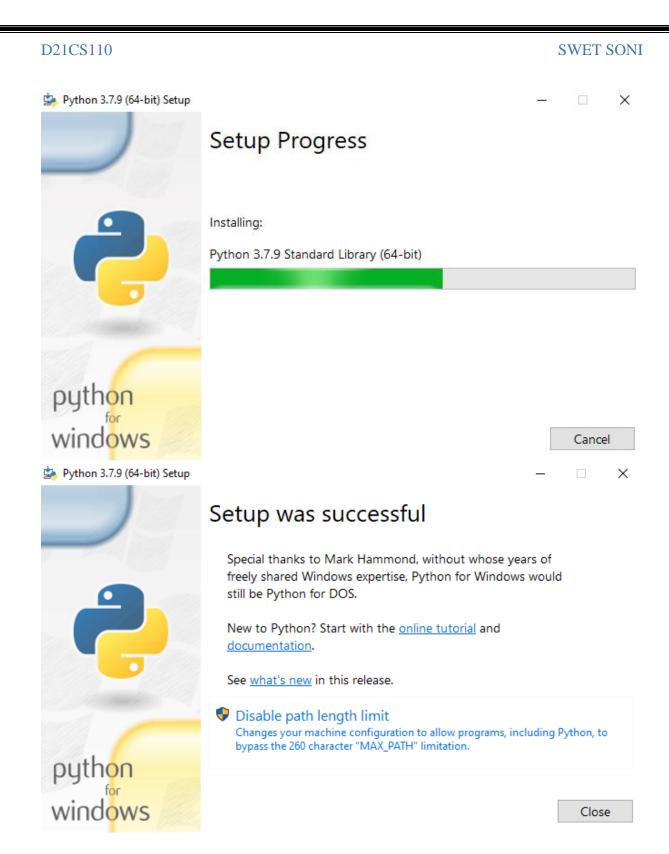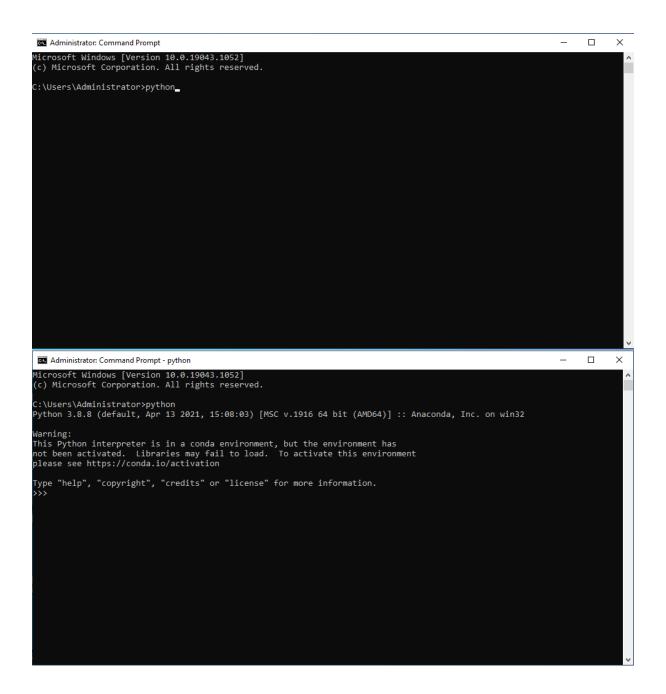
➢ **CREATE VIRTUAL ENVIRONMENT USING -m COMMAND.**

```
Command Prompt                                                    —    □    ×

Microsoft Windows [Version 10.0.19043.1586]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Root>python -m venv Root

C:\Users\Root>.\Root\Scripts\activate

(Root) C:\Users\Root>
```

```
Command Prompt                                                    —    □    ×

C:\Users\Root>.\Root\Scripts\activate

(Root) C:\Users\Root>pip install sklearn
Collecting sklearn
  Downloading sklearn-0.0.tar.gz (1.1 kB)
  Preparing metadata (setup.py) ... done
Collecting scikit-learn
  Downloading scikit_learn-1.0.2-cp310-cp310-win_amd64.whl (7.2 MB)
     ---------------------------------------- 7.2/7.2 MB 3.8 MB/s eta 0:00:00
Collecting numpy>=1.14.6
  Downloading numpy-1.22.3-cp310-cp310-win_amd64.whl (14.7 MB)
     ---------------------------------------- 14.7/14.7 MB 4.3 MB/s eta 0:00:00
Collecting scipy>=1.1.0
  Downloading scipy-1.8.0-cp310-cp310-win_amd64.whl (37.0 MB)
     ---------------------------------------- 37.0/37.0 MB 3.6 MB/s eta 0:00:00
Collecting threadpoolctl>=2.0.0
  Downloading threadpoolctl-3.1.0-py3-none-any.whl (14 kB)
Collecting joblib>=0.11
  Downloading joblib-1.1.0-py2.py3-none-any.whl (306 kB)
     ---------------------------------------- 307.0/307.0 KB 6.3 MB/s eta 0:00:00
Using legacy 'setup.py install' for sklearn, since package 'wheel' is not installed.
Installing collected packages: threadpoolctl, numpy, joblib, scipy, scikit-learn, sklearn
  Running setup.py install for sklearn ... done
Successfully installed joblib-1.1.0 numpy-1.22.3 scikit-learn-1.0.2 scipy-1.8.0 sklearn-0.0 threadpoolctl-3.1.0

(Root) C:\Users\Root>
```

➢ **CREATE VIRTUAL INVERONMENT USING PYTHON PACKAGE VIRTUALENV AND VIRTUALWRAPPER.**

```
Downloading virtualenv-20.13.4-py2.py3-none-any.whl (8.7 MB)
---------------------------------------- 8.7/8.7 MB 4.8 MB/s eta 0:00:00
Collecting six<2,>=1.9.0
  Downloading six-1.16.0-py2.py3-none-any.whl (11 kB)
Collecting filelock<4,>=3.2
  Downloading filelock-3.6.0-py3-none-any.whl (10.0 kB)
Collecting platformdirs<3,>=2
  Downloading platformdirs-2.5.1-py3-none-any.whl (14 kB)
Collecting distlib<1,>=0.3.1
  Downloading distlib-0.3.4-py2.py3-none-any.whl (461 kB)
---------------------------------------- 461.2/461.2 KB 5.8 MB/s eta 0:00:00
Installing collected packages: distlib, six, platformdirs, filelock, virtualenv
Successfully installed distlib-0.3.4 filelock-3.6.0 platformdirs-2.5.1 six-1.16.0 virtualenv-20.13.4

(Root) C:\Users\Root>
```

Command Prompt   —   □   ×

```
(Root) C:\Users\Root>pip install virtualenvwrapper-win
Collecting virtualenvwrapper-win
  Downloading virtualenvwrapper_win-1.2.7-py3-none-any.whl (18 kB)
Requirement already satisfied: virtualenv in c:\users\root\root\lib\site-packages (from virtualenvwrapper-win) (20.13.4)

Requirement already satisfied: distlib<1,>=0.3.1 in c:\users\root\root\lib\site-packages (from virtualenv->virtualenvwra
pper-win) (0.3.4)
Requirement already satisfied: six<2,>=1.9.0 in c:\users\root\root\lib\site-packages (from virtualenv->virtualenvwrapper
-win) (1.16.0)
Requirement already satisfied: platformdirs<3,>=2 in c:\users\root\root\lib\site-packages (from virtualenv->virtualenvwr
apper-win) (2.5.1)
Requirement already satisfied: filelock<4,>=3.2 in c:\users\root\root\lib\site-packages (from virtualenv->virtualenvwrap
per-win) (3.6.0)
Installing collected packages: virtualenvwrapper-win
Successfully installed virtualenvwrapper-win-1.2.7

(Root) C:\Users\Root>
```

> ➢ **FIRST PROGRAM IN PYTHON**