

Agenda of Class 4

- A) Anaconda Installation
- B) Basic commands in Anaconda Prompt

A) Installing Anaconda on Windows

- Anaconda distribution of Python is one of the best options for problem solvers who want to use Python.
- Anaconda is free and can be installed on school or work computers where you don't have administrator access or the ability to install new programs.
- Anaconda comes bundled with about 600 packages pre-installed including **NumPy**, **Matplotlib** and **SymPy**.
- These three packages are very useful for problem solvers.

Follow the steps below to install the Anaconda distribution of Python on Windows.

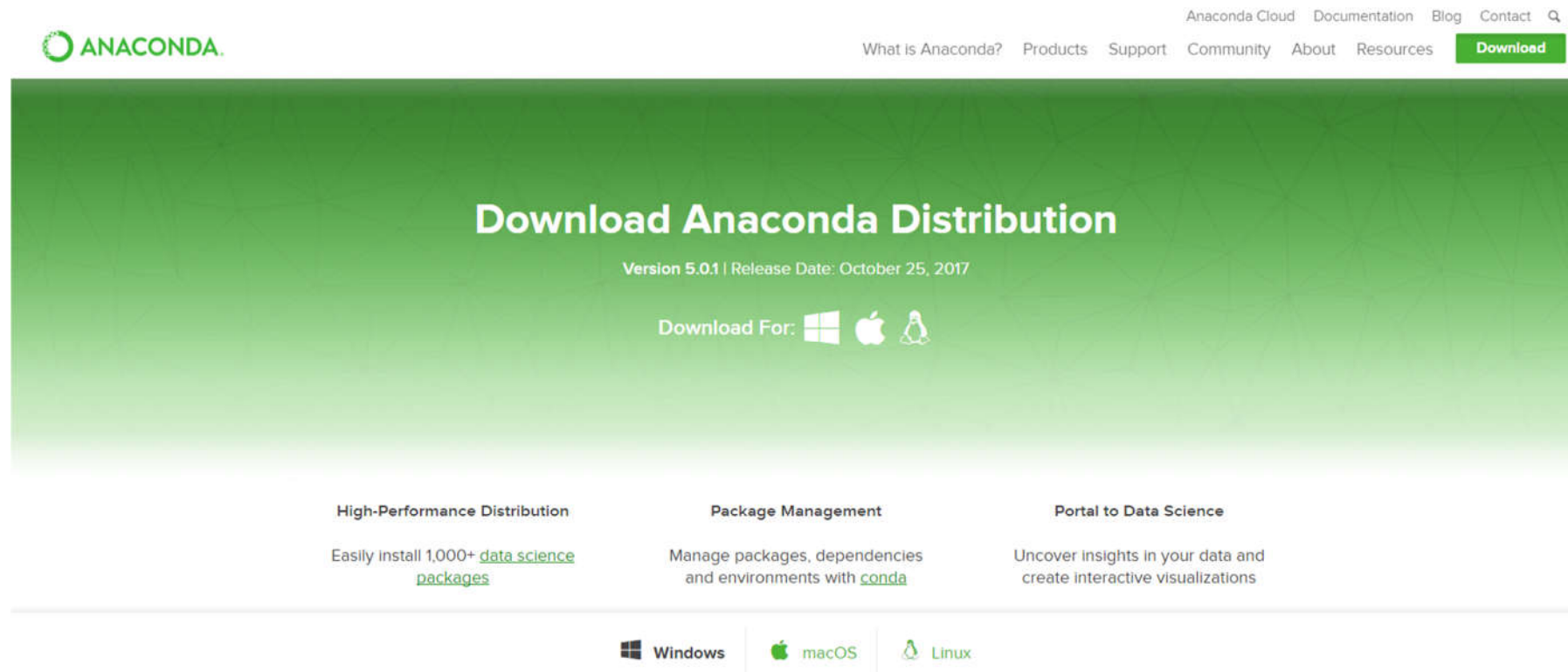
Steps:

1. Visit [Anaconda.com/downloads](https://anaconda.com/downloads)
2. Select Windows
3. Download the **.exe** installer
4. Open and run the **.exe** installer
5. Open the **Anaconda Prompt** and run some Python code

1. Visit the Anaconda downloads page

Go to the following link: [Anaconda.com/downloads](https://anaconda.com/downloads)

The Anaconda Downloads Page will look something like this:



2. Select Windows

Select Windows where the three operating systems are listed.



Windows



macOS



Linux

3. Download

- Check your system type (64-bit / 32-bit version of Windows)
- Download the most recent Python 3 release.

Anaconda 5.0.1 For Windows Installer

Python 3.6 version *	Python 2.7 version *
Download	Download
64-Bit Graphical Installer (515 MB) ⓘ 32-Bit Graphical Installer (420 MB)	64-Bit Graphical Installer (500 MB) ⓘ 32-Bit Graphical Installer (403 MB)

Thank You for Downloading Anaconda!

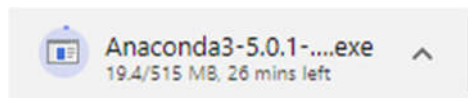
Get Started with the Anaconda Cheat Sheet

Work Email *

Get the Starter Guide

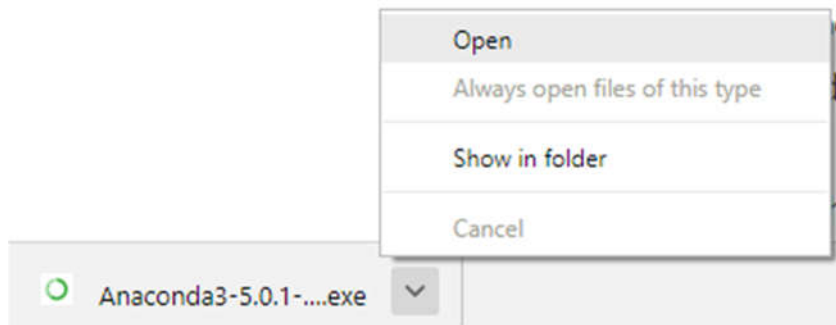
No Thanks

- The download may take a while to for Anaconda to download.



4. Open and run the installer

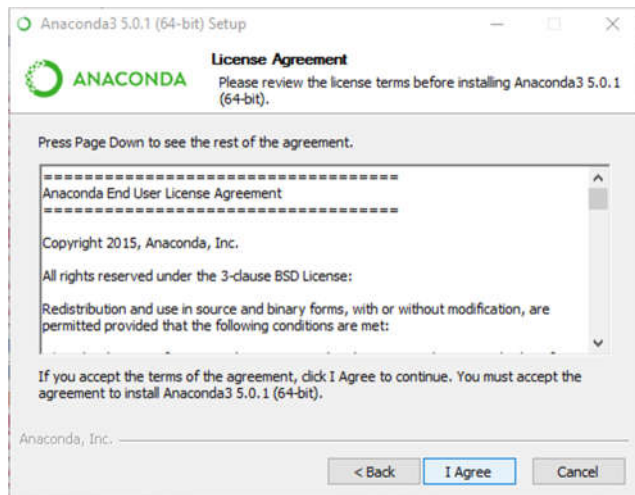
Once the download completes, open and run the **.exe** installer



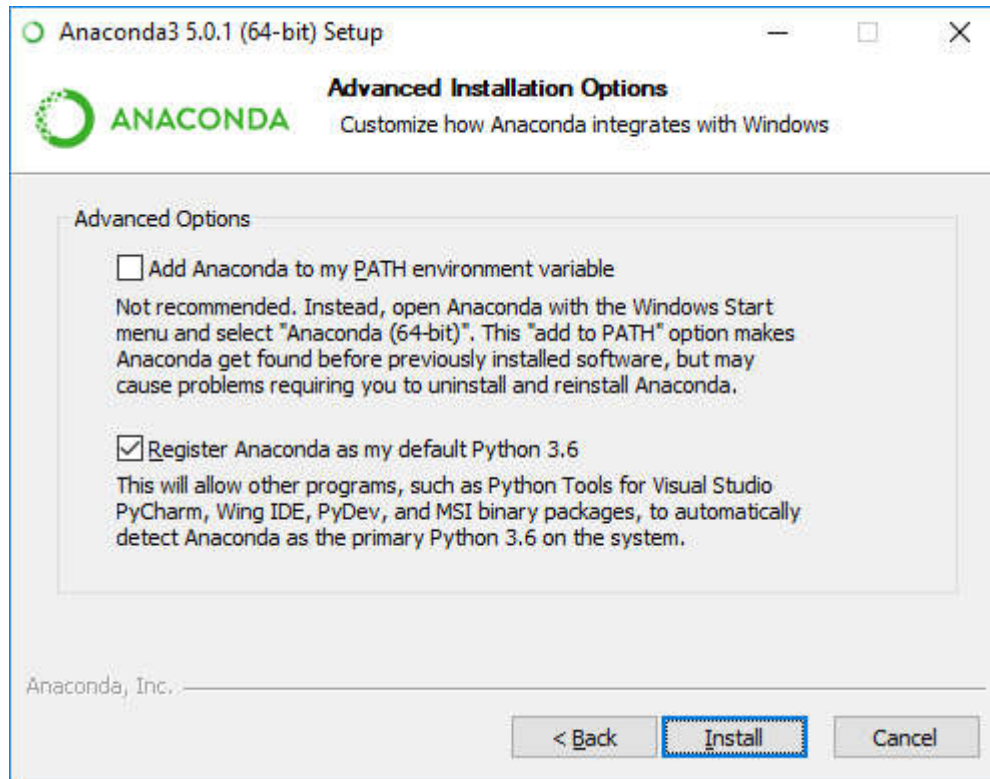
At the beginning of the install, you need to click Next to confirm the installation.



Then agree to the license.



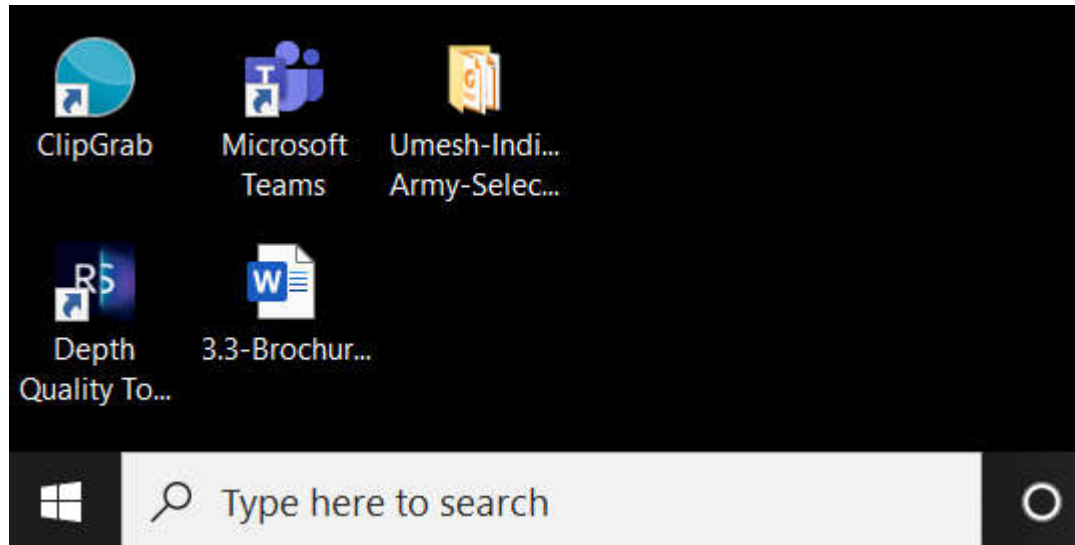
At the Advanced Installation Options screen, do not check "Add Anaconda to my PATH environment variable"



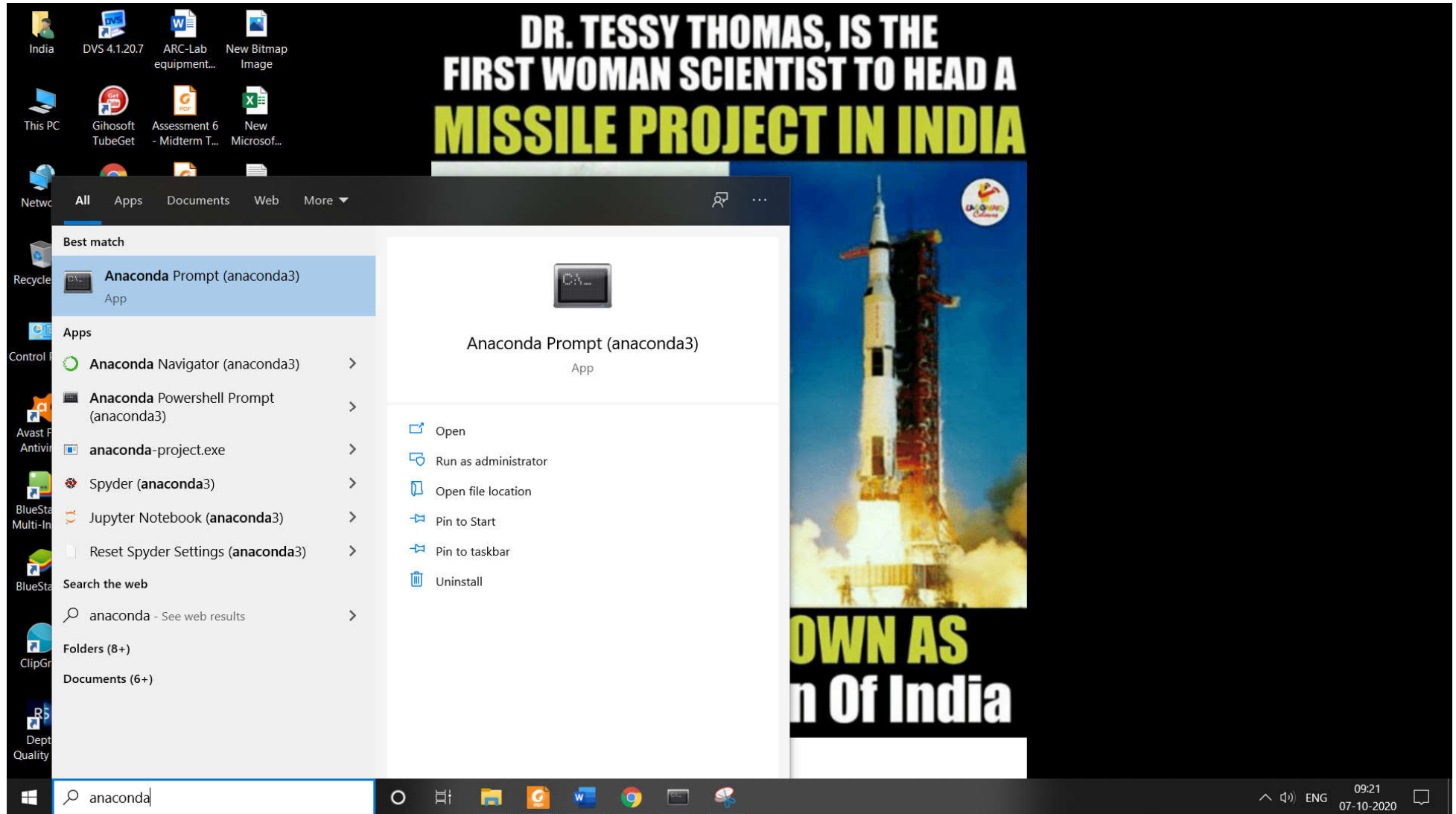
The Anaconda distribution will be installed successfully.

How to open and use Anaconda distribution after its Installation...

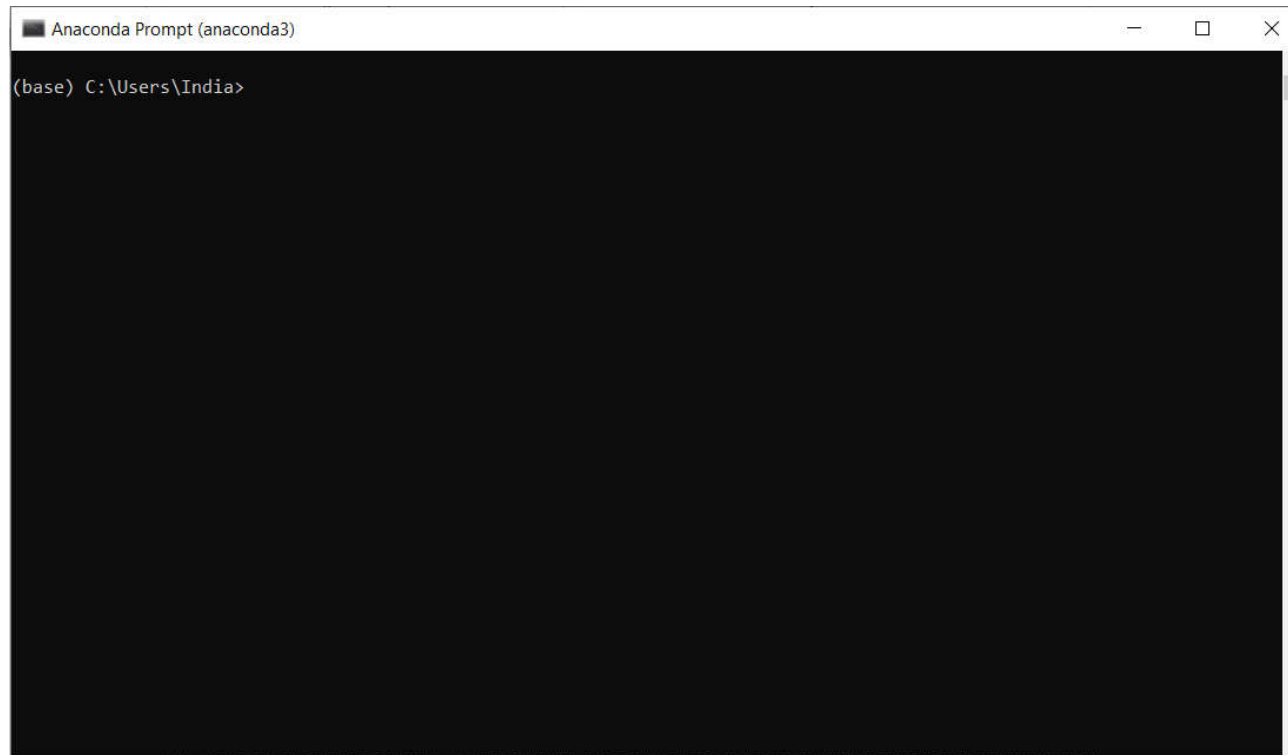
- 1) Go to Desktop...
- 2) Put the cursor in 'Search box' on Desktop as below...



3) Type 'Anaconda' as shown below...



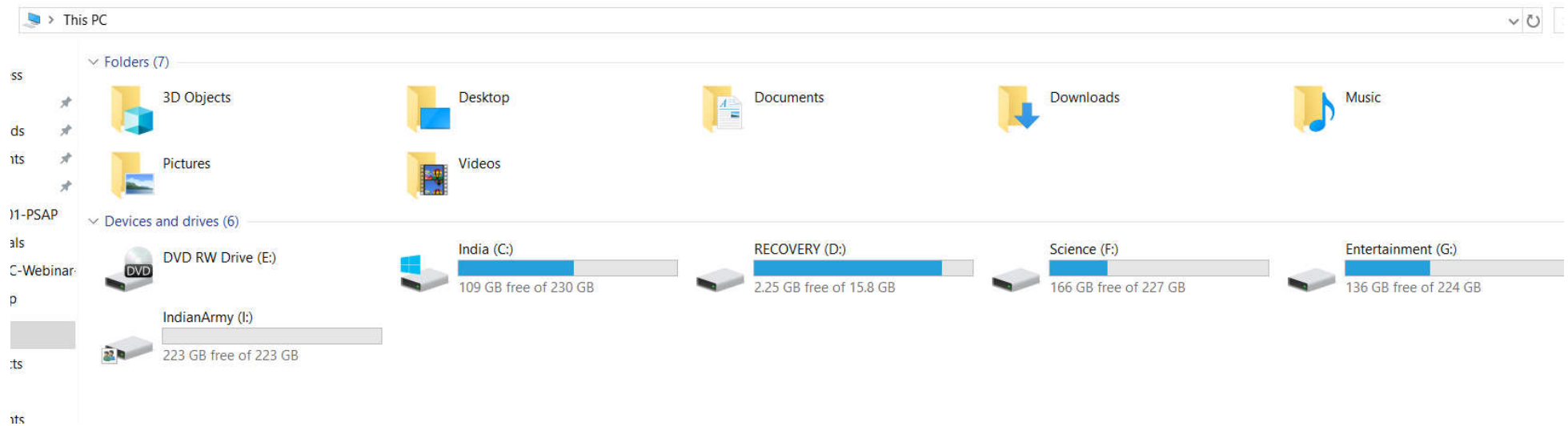
4) Click on 'Anaconda Prompt'. A black colour screen (command prompt) will be opened as shown below...



- **Anaconda** is the Python distribution.
- The **Anaconda Prompt** is a command line shell (a program where you type in commands instead of using a mouse).

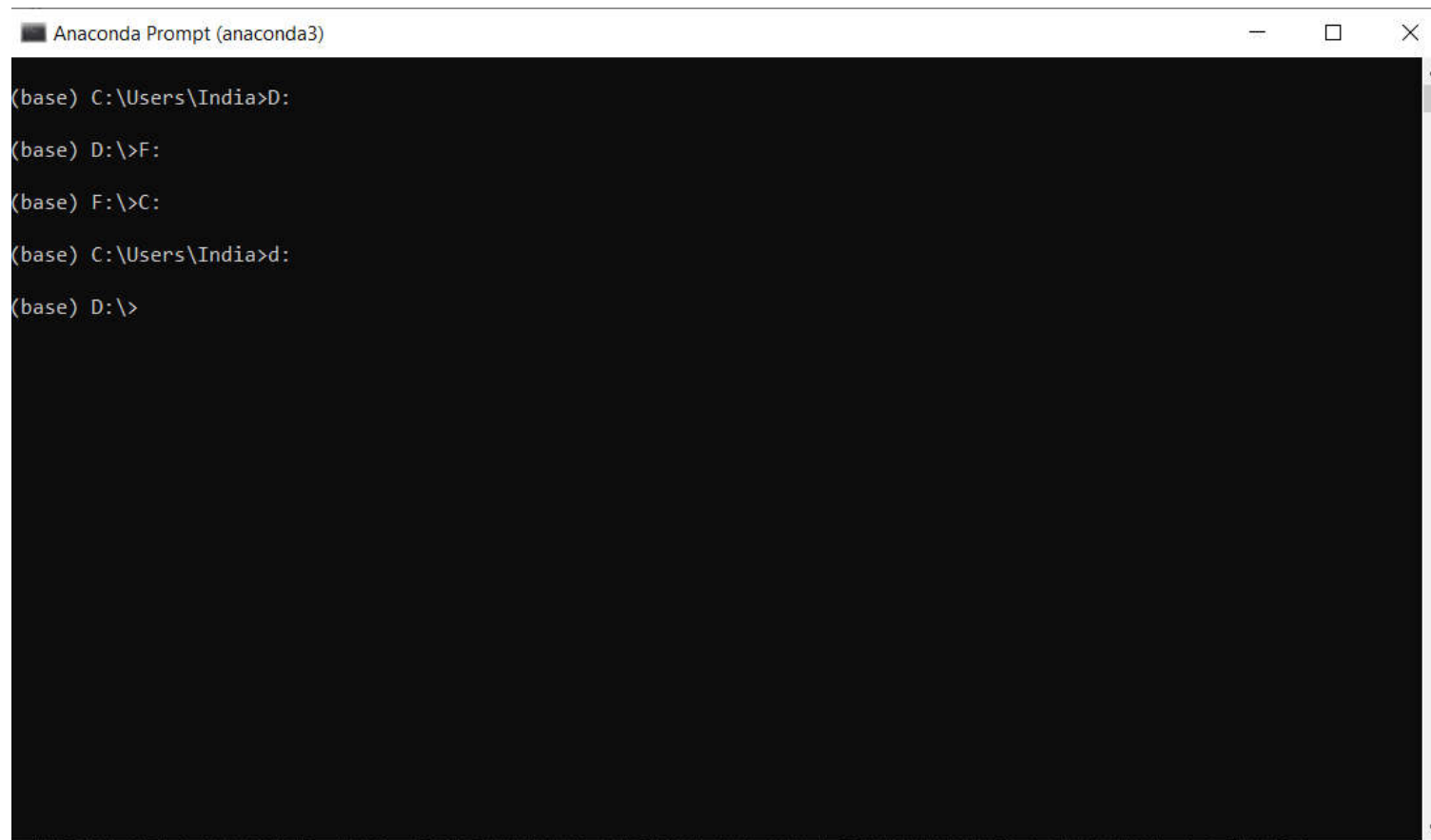
B) Basic commands in Anaconda Prompt

Drives in my Computer:



How to change the drive in Command Prompt (CMD)

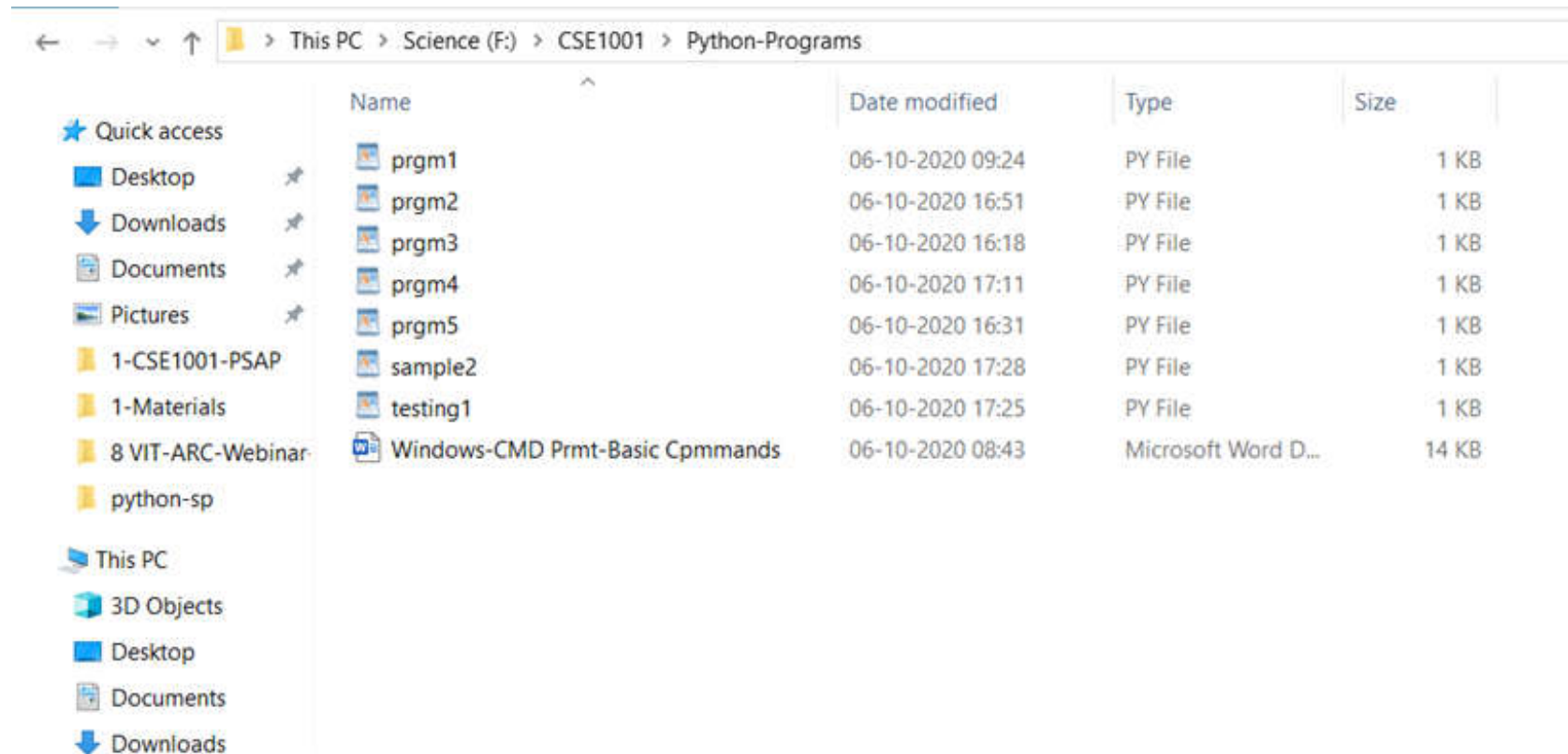
- To access another drive, type the drive's letter, followed by ":".
- For instance, if you want to change the drive from "C:" to "D:", you should type "d:" and then press *Enter* on your keyboard as shown below.

A screenshot of the Anaconda Prompt window, titled "Anaconda Prompt (anaconda3)". The window has a black background with white text. The command history shows the following sequence of commands and prompts: 1. "(base) C:\Users\India>D:" 2. "(base) D:\>F:" 3. "(base) F:\>C:" 4. "(base) C:\Users\India>d:" 5. "(base) D:\>". The prompt character is a green greater-than sign. The window includes standard Windows window controls (minimize, maximize, close) in the top right corner and a vertical scrollbar on the right side.

```
(base) C:\Users\India>D:
(base) D:\>F:
(base) F:\>C:
(base) C:\Users\India>d:
(base) D:\>
```

How to view the contents of a directory in Command Prompt (CMD)

- You can view the contents of a folder by using a command called **DIR**.
- To test it, we have created a folder named **Python-Programs** on the **F:/CSE1001**, with several files.
- You can see them in the screenshot below.



```
Anaconda Prompt (anaconda3)

(base) F:\CSE1001\Python-Programs>DIR
Volume in drive F is Science
Volume Serial Number is A65E-D2AE

Directory of F:\CSE1001\Python-Programs

07-10-2020  09:47    <DIR>          .
07-10-2020  09:47    <DIR>          ..
06-10-2020  09:24             97 prgm1.py
06-10-2020  16:51            289 prgm2.py
06-10-2020  16:18            245 prgm3.py
06-10-2020  17:11            346 prgm4.py
06-10-2020  16:31            166 prgm5.py
06-10-2020  17:28             10 sample2.py
06-10-2020  17:25             28 testing1.py
06-10-2020  08:43        13,590 Windows-CMD Prmt-Basic Cpmmands.docx
               8 File(s)              14,771 bytes
               2 Dir(s)  178,465,075,200 bytes free

(base) F:\CSE1001\Python-Programs>DiR
Volume in drive F is Science
Volume Serial Number is A65E-D2AE

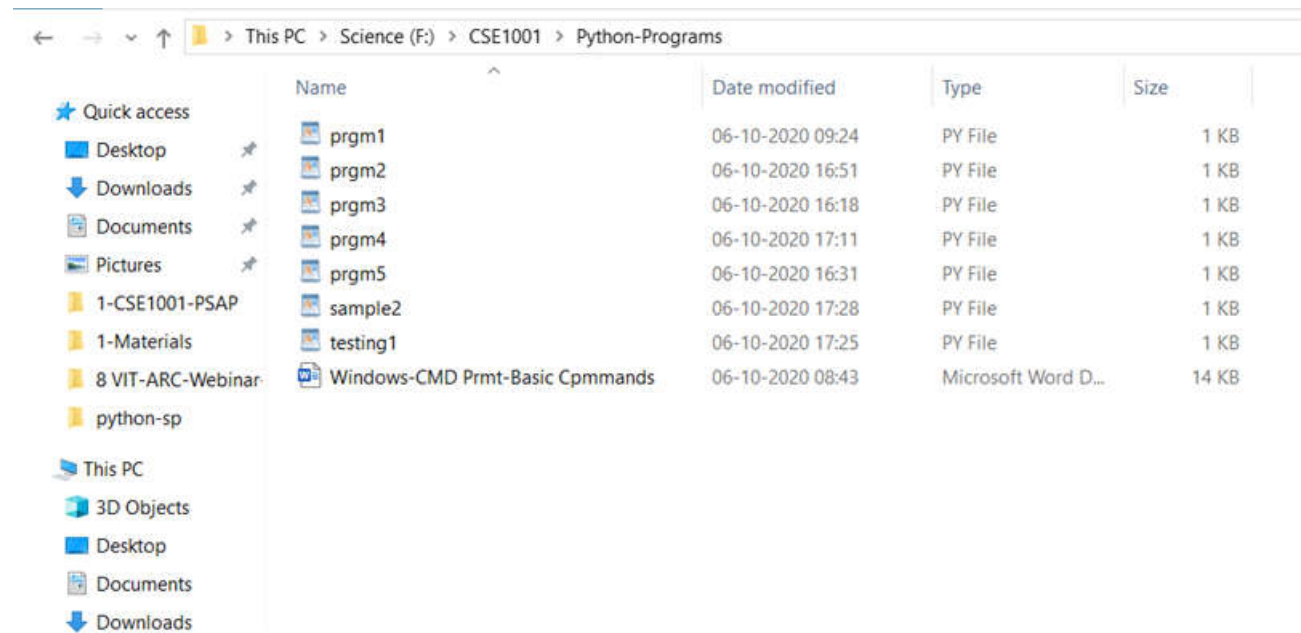
Directory of F:\CSE1001\Python-Programs

07-10-2020  09:47    <DIR>          .
07-10-2020  09:47    <DIR>          ..
06-10-2020  09:24             97 prgm1.py
06-10-2020  16:51            289 prgm2.py
06-10-2020  16:18            245 prgm3.py
06-10-2020  17:11            346 prgm4.py
06-10-2020  16:31            166 prgm5.py
06-10-2020  17:28             10 sample2.py
06-10-2020  17:25             28 testing1.py
06-10-2020  08:43        13,590 Windows-CMD Prmt-Basic Cpmmands.docx
               8 File(s)              14,771 bytes
               2 Dir(s)  178,465,075,200 bytes free

(base) F:\CSE1001\Python-Programs>
```

- DIR command is not case sensitive. DIR, dir, Dlr, dIR, are same.

How to change the directory (folder) in Command Prompt (CMD)



CD

- The command is **CD** (*Change Directory*).
- This command enables you to change the current directory or, in other words, to navigate to another folder.

```
Anaconda Prompt (anaconda3)

(base) F:\>cd CSE1001

(base) F:\CSE1001>dir
Volume in drive F is Science
Volume Serial Number is A65E-D2AE

Directory of F:\CSE1001

07-10-2020  09:47    <DIR>        .
07-10-2020  09:47    <DIR>        ..
07-10-2020  10:35    <DIR>        Python-Programs
               0 File(s)                0 bytes
               3 Dir(s)  178,464,493,568 bytes free

(base) F:\CSE1001>cd Python-Programs

(base) F:\CSE1001\Python-Programs>dir
Volume in drive F is Science
Volume Serial Number is A65E-D2AE

Directory of F:\CSE1001\Python-Programs

07-10-2020  10:35    <DIR>        .
07-10-2020  10:35    <DIR>        ..
07-10-2020  10:25    <DIR>        earth
07-10-2020  10:35    <DIR>        Moon
06-10-2020  09:24             97 prgm1.py
06-10-2020  16:51            289 prgm2.py
06-10-2020  16:18            245 prgm3.py
06-10-2020  17:11            346 prgm4.py
06-10-2020  16:31            166 prgm5.py
06-10-2020  17:28             10 sample2.py
06-10-2020  17:25             28 testing1.py
06-10-2020  08:43        13,590 Windows-CMD Prmt-Basic Cpmmands.docx
               8 File(s)            14,771 bytes
               4 Dir(s)  178,464,493,568 bytes free

(base) F:\CSE1001\Python-Programs>
```


CD/

- The command **CD** takes you to the top of the directory tree.
- To see how it works, after you open the *Command Prompt*, type `cd\` and press *Enter* on your keyboard.
- You should see how the **CD** command takes you to the top of the directory tree.

```
Anaconda Prompt (anaconda3)

(base) F:\>cd CSE1001

(base) F:\CSE1001>cd Python-Programs

(base) F:\CSE1001\Python-Programs>dir
Volume in drive F is Science
Volume Serial Number is A65E-D2AE

Directory of F:\CSE1001\Python-Programs

07-10-2020  10:35    <DIR>        .
07-10-2020  10:35    <DIR>        ..
07-10-2020  10:25    <DIR>        earth
07-10-2020  10:35    <DIR>        Moon
06-10-2020  09:24             97 prgm1.py
06-10-2020  16:51            289 prgm2.py
06-10-2020  16:18            245 prgm3.py
06-10-2020  17:11            346 prgm4.py
06-10-2020  16:31            166 prgm5.py
06-10-2020  17:28             10 sample2.py
06-10-2020  17:25             28 testing1.py
06-10-2020  08:43          13,590 Windows-CMD Prmt-Basic Cpmmands.docx
               8 File(s)          14,771 bytes
               4 Dir(s)  178,464,423,936 bytes free

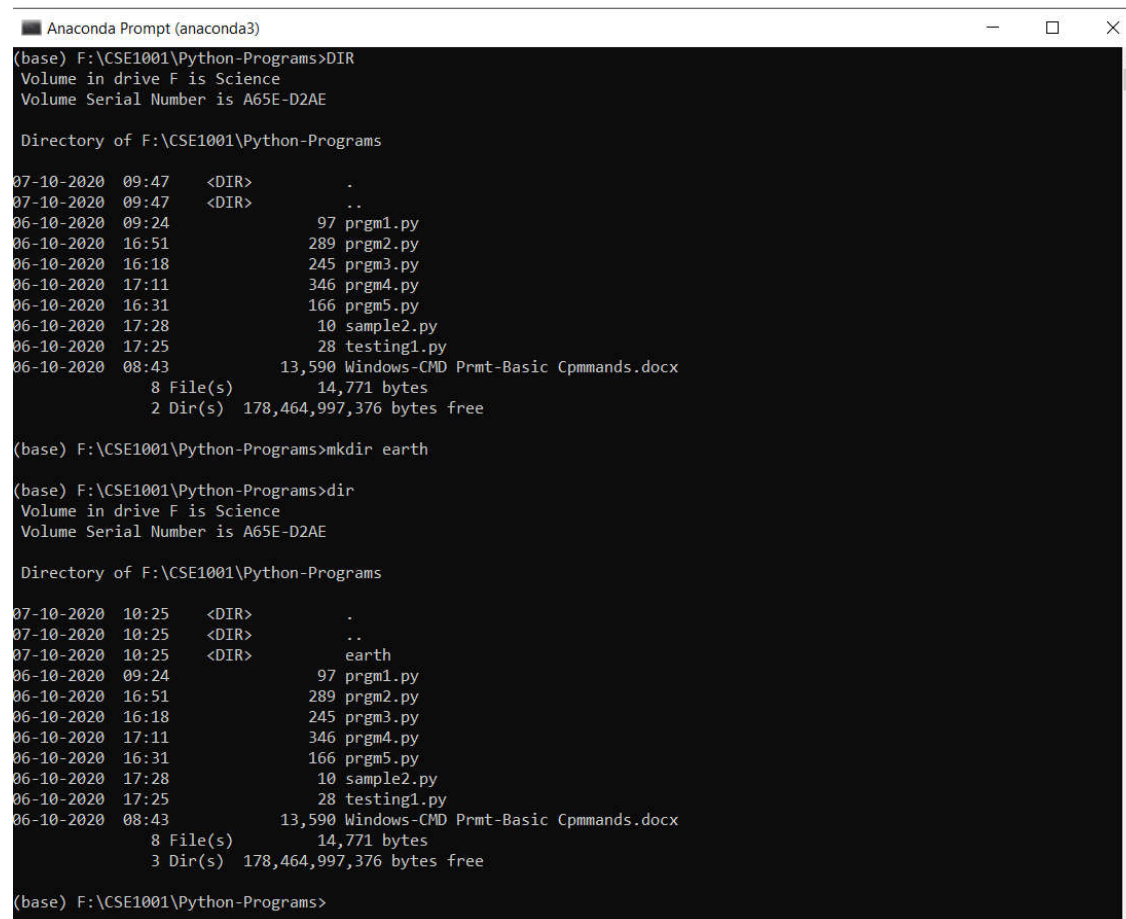
(base) F:\CSE1001\Python-Programs>cd/

(base) F:\>
```

How to create a new directory with Command Prompt (CMD)

- You can make a new folder using the *MKDIR* (Make Directory) or the *MD* command.
- The syntax of these commands is "*MKDIR folder_name*" or "*MD folder_name*."

'MKDIR' command execution is shown below.



```
Anaconda Prompt (anaconda3)
(base) F:\CSE1001\Python-Programs>DIR
Volume in drive F is Science
Volume Serial Number is A65E-D2AE

Directory of F:\CSE1001\Python-Programs

07-10-2020 09:47 <DIR>      .
07-10-2020 09:47 <DIR>      ..
06-10-2020 09:24          97 prgm1.py
06-10-2020 16:51         289 prgm2.py
06-10-2020 16:18         245 prgm3.py
06-10-2020 17:11         346 prgm4.py
06-10-2020 16:31         166 prgm5.py
06-10-2020 17:28          10 sample2.py
06-10-2020 17:25          28 testing1.py
06-10-2020 08:43       13,590 Windows-CMD Prmt-Basic Cpmmands.docx
            8 File(s)         14,771 bytes
            2 Dir(s)  178,464,997,376 bytes free

(base) F:\CSE1001\Python-Programs>mkdir earth

(base) F:\CSE1001\Python-Programs>dir
Volume in drive F is Science
Volume Serial Number is A65E-D2AE

Directory of F:\CSE1001\Python-Programs

07-10-2020 10:25 <DIR>      .
07-10-2020 10:25 <DIR>      ..
07-10-2020 10:25 <DIR>      earth
06-10-2020 09:24          97 prgm1.py
06-10-2020 16:51         289 prgm2.py
06-10-2020 16:18         245 prgm3.py
06-10-2020 17:11         346 prgm4.py
06-10-2020 16:31         166 prgm5.py
06-10-2020 17:28          10 sample2.py
06-10-2020 17:25          28 testing1.py
06-10-2020 08:43       13,590 Windows-CMD Prmt-Basic Cpmmands.docx
            8 File(s)         14,771 bytes
            3 Dir(s)  178,464,997,376 bytes free

(base) F:\CSE1001\Python-Programs>
```

'MD' command execution is shown below.

```
Anaconda Prompt (anaconda3)

(base) F:\CSE1001\Python-Programs>dir
Volume in drive F is Science
Volume Serial Number is A65E-D2AE

Directory of F:\CSE1001\Python-Programs

07-10-2020 10:25 <DIR>      .
07-10-2020 10:25 <DIR>      ..
07-10-2020 10:25 <DIR>      earth
06-10-2020 09:24          97 prgm1.py
06-10-2020 16:51          289 prgm2.py
06-10-2020 16:18          245 prgm3.py
06-10-2020 17:11          346 prgm4.py
06-10-2020 16:31          166 prgm5.py
06-10-2020 17:28          10 sample2.py
06-10-2020 17:25          28 testing1.py
06-10-2020 08:43      13,590 Windows-CMD Prmt-Basic Cpmmands.docx
                   8 File(s)          14,771 bytes
                   3 Dir(s)  178,464,997,376 bytes free

(base) F:\CSE1001\Python-Programs>md Moon

(base) F:\CSE1001\Python-Programs>dir
Volume in drive F is Science
Volume Serial Number is A65E-D2AE

Directory of F:\CSE1001\Python-Programs

07-10-2020 10:35 <DIR>      .
07-10-2020 10:35 <DIR>      ..
07-10-2020 10:25 <DIR>      earth
07-10-2020 10:35 <DIR>      Moon
06-10-2020 09:24          97 prgm1.py
06-10-2020 16:51          289 prgm2.py
06-10-2020 16:18          245 prgm3.py
06-10-2020 17:11          346 prgm4.py
06-10-2020 16:31          166 prgm5.py
06-10-2020 17:28          10 sample2.py
06-10-2020 17:25          28 testing1.py
06-10-2020 08:43      13,590 Windows-CMD Prmt-Basic Cpmmands.docx
                   8 File(s)          14,771 bytes
                   4 Dir(s)  178,464,915,456 bytes free

(base) F:\CSE1001\Python-Programs>
```

Activity:

- Execute the following commands in Anaconda Prompt and take the screen shots. Document it in PDF file.
 - CD
 - CD/
 - DIR
 - MKDIR
 - MD
 - CLS
- What is the command for deleting files in Anaconda command prompt? Give sample scree shots.