

Worksheet 1.1

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Branch: CSE - AIML

Section/Group: 21AML - 9 - A

Semester: 3rd

Subject Name: Python for Machine Learning

Subject Code 21CSH-238

Aim/Overview of the practical:

Study of Python, Python Documentation, Anaconda, and Google Colaboratory.

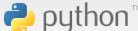
Tasks to be done:

- a. Python Documentation Study
- b. Python installation on local machine
- c. Anaconda installation on local machine
- d. Exploring Google Colab

Python Documentation Study:

Python is a programming language that lets you work more quickly and integrate your systems more effectively.

Python Docs: <https://wiki.python.org/moin/BeginnersGuide>



titles text

[» BeginnersGuide](#)

[» BeginnersGuide](#)

Beginner's Guide to Python

New to programming? Python is free and easy to learn if you know where to start! This guide will help you to get started quickly.

[Chinese Translation](#)

New to Python?

Read [BeginnersGuide/Overview](#) for a short explanation of what Python is.

Getting Python

Next, install the Python 3 interpreter on your computer. This is the program that reads Python programs and carries out their instructions; you need it before you can do any Python programming. Mac and Linux distributions may include an outdated version of Python (Python 2), but you should install an updated one (Python 3). See [BeginnersGuide/Download](#) for instructions to download the correct version of Python.

There are also Python interpreter and IDE bundles available, such as [Thonny](#). Other options can be found at [IntegratedDevelopmentEnvironments](#).

At some stage, you'll want to edit and save your program code. Take a look at [HowToEditPythonCode](#) for some advice and recommendations.

Learning Python

Next, read a tutorial and try some simple experiments with your new Python interpreter.

- » If you have never programmed before, see [BeginnersGuide/NonProgrammers](#) for a list of suitable tutorials.
- » If you have previous programming experience, consult [BeginnersGuide/Programmers](#), which lists more advanced tutorials.
- » If English isn't your first language, you might be more comfortable with a tutorial that's been translated into your language. Consult python.org's [list of Non-English resources](#).

Most tutorials assume that you know how to run a program on your computer. If you are using Windows and need help with this, see [How do I Run a Program Under Windows](#).

Some sites offer in-browser coding for those who want to learn Python:

- » [A completely free beginners tutorial with interactive, editable code examples](#)
- » [Codecademy](#)
- » [Coding Bootcamps](#)
- » [DataCamp](#)
- » [Dataquest](#) for Python for data science.
- » [HackinScience](#) free and open source platform.
- » [High School Technology Services](#) for general Python

Print a [cheat sheet](#) of the most important Python features and post it to your office wall until you know the basics well.

FRONTPAGE

RECENTCHANGES

FINDPAGE

HELPCONTENTS

BEGINNERSGUIDE

Page

» Immutability Page

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» More Actions:

User

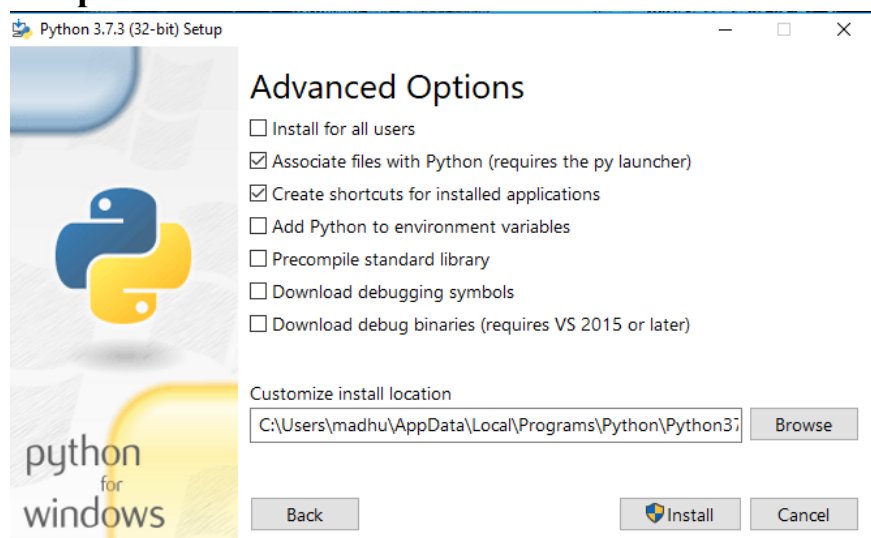
» Login

Python Installation:

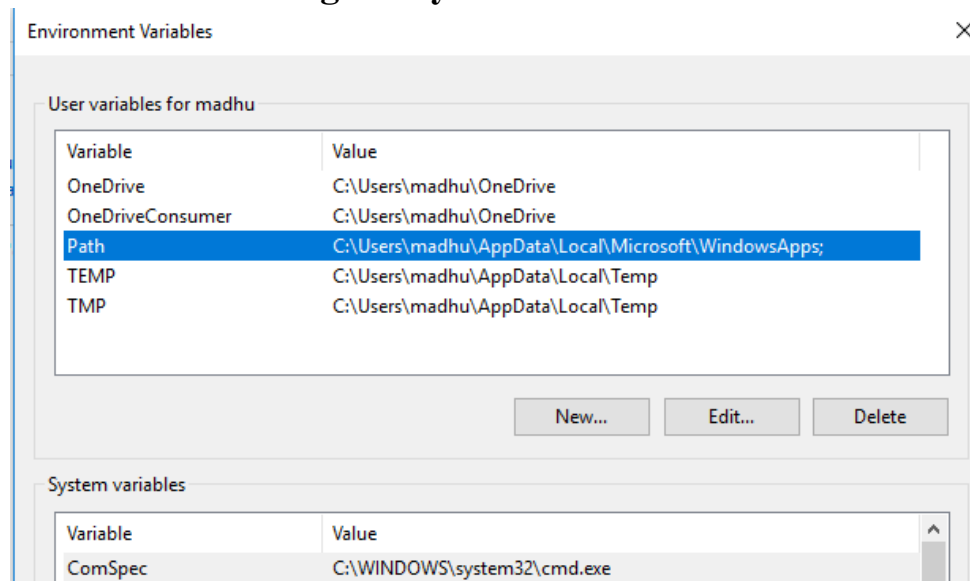
1. Download Python Setup: <https://www.python.org/downloads/>
2. Run Executable Installer:



3. Setup Location and choose features:



4. In advanced settings of System add Environment Path Variable:



5. Verify the Python Installation

```
Command Prompt - python

Microsoft Windows [Version 10.0.17134.765]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\madhu>python
Python 3.7.3 (v3.7.3:ef4ec6ed12, Mar 25 2019, 22:22:05) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
```

Anaconda Installation:

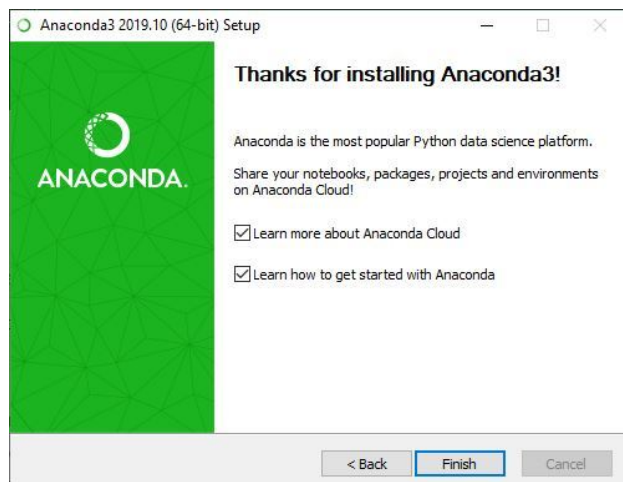
1. Download Anaconda Setup:

<https://www.anaconda.com/products/distribution#windows>

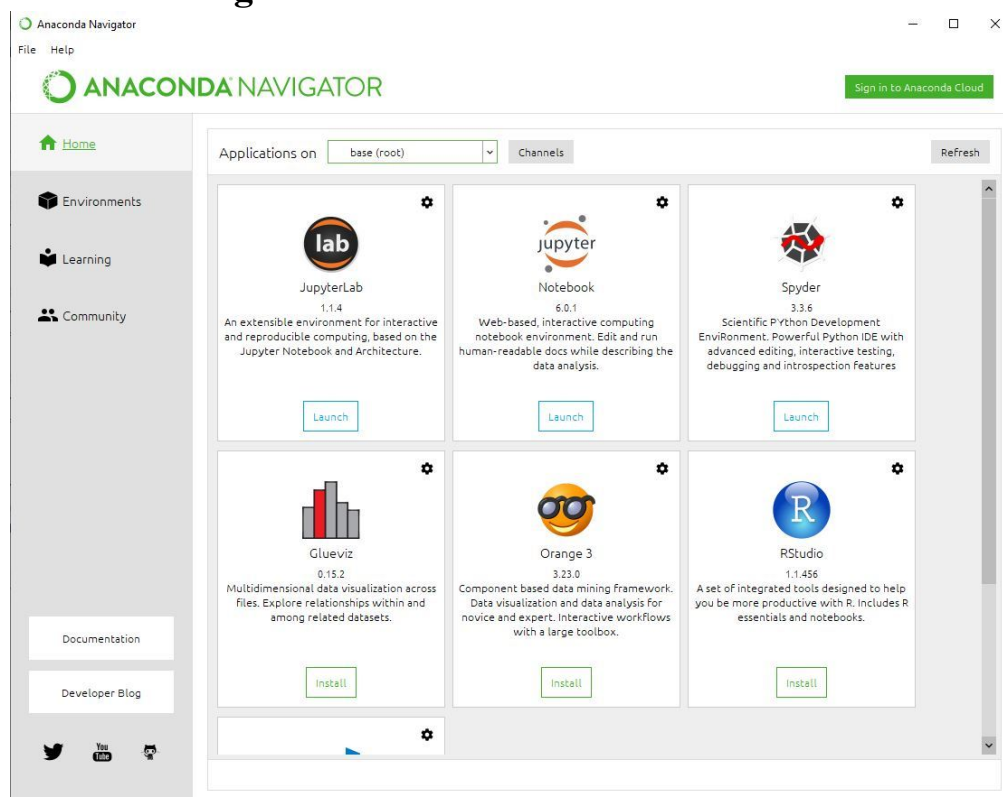
2. Run Executable:



3. Set Installation Location and finish the installation:

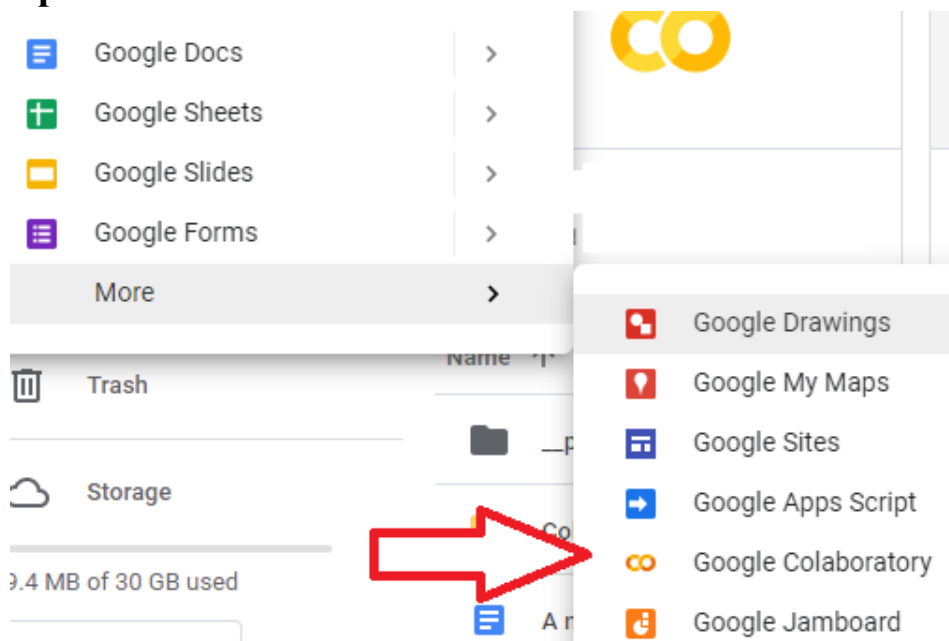


4. Start Working in the Anaconda Environment.

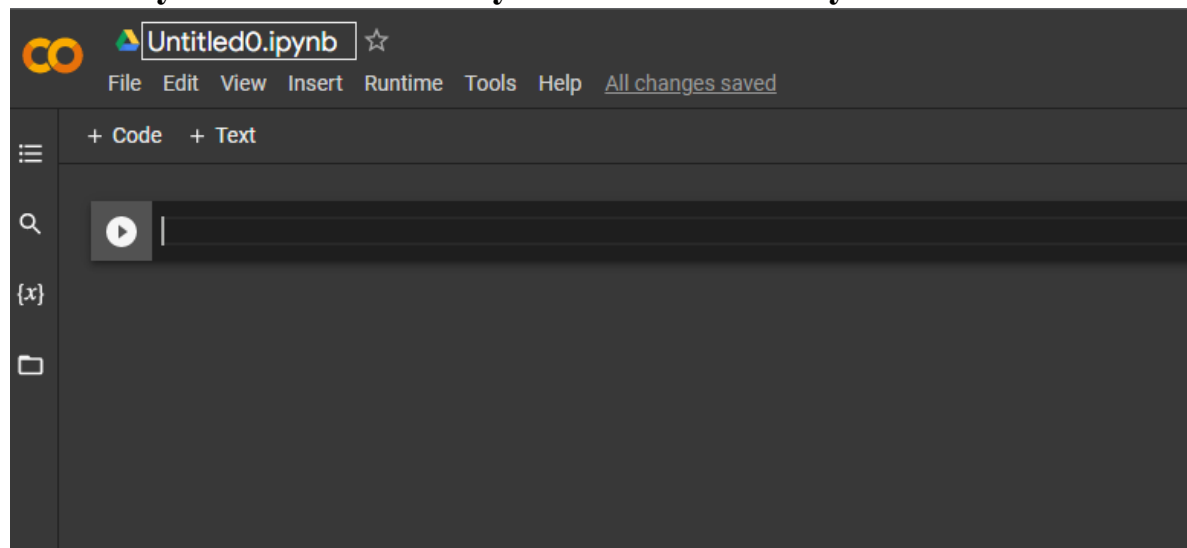


Google Colab for Python:

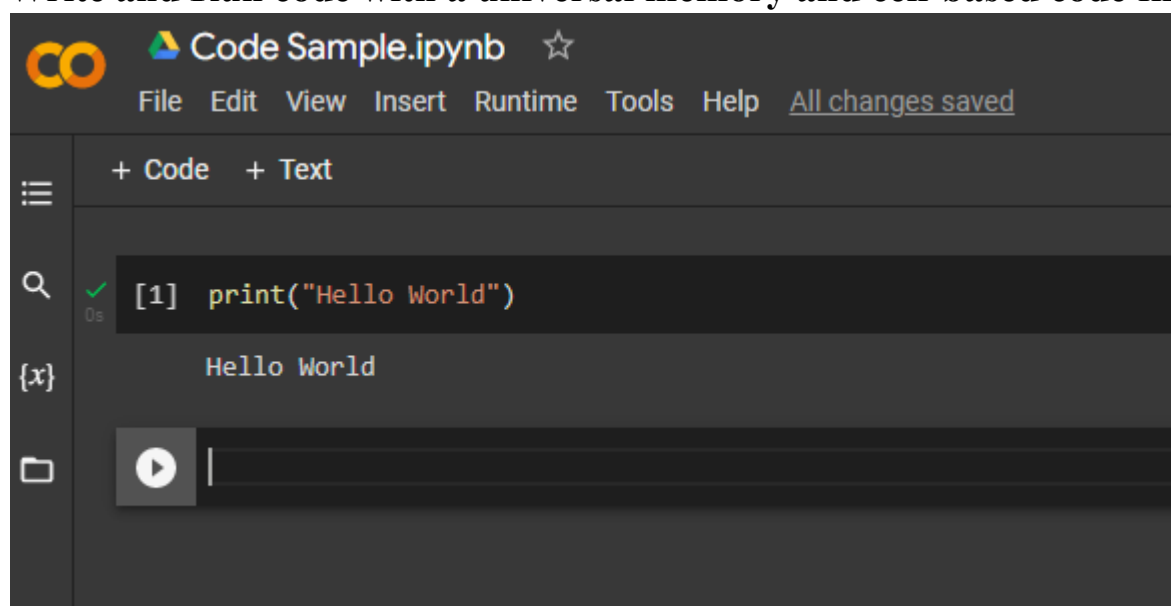
1. Open a new Colab file in drive:



2. Rename your file to save it by the same name in your drive:



3. Write and Run code with a universal memory and cell-based code file structure:



What I learned:

1. Learned about Python Basics
2. Learned How to install Python on a Computer
3. Learned about Anaconda Installation
4. Learned about Google Cola

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			