**Python training:**

**Course Name:** **Python**

**Date: 20 Feb 2023**

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**Expectation:**

**Attend in class training and then do self-learning/Hands on practice**

**To-Do list:**

**Self-study:**

1. **Go Through the E-BOX:**

Complete the relevant modules for Day1.

**Software:**

1. Try below installation-

On Windows Platform - Python 3.x on windows Install Python 3.x on windows using below link: <https://www.python.org/downloads/>

**OR**

Anaconda installation on Windows

Use the link: <https://www.anaconda.com/products/individual>

**OR**

1. Online Python interpreter:

<https://www.onlinegdb.com/online_python_interpreter>

or

<https://www.online-python.com/>

**Documentation:** Refer Python Manual doc as shown in below screen shot-

Graphical user interface, application, Teams

Description automatically generated

**Topics Covered :**

**Day1 :20th Feb 2023**

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| --- |
| Python Introduction, Features |
| Setup the Python Programming Environment, Python Installation |
| Variables |
| Comments |
| Dynamic Vs Static Typing |
| Built-in types : int, float, str |
| Numbers and Math operators |
| Conversions |
| Comparison and other operators |
| Built-in functions: print, type, input, int, float, ord, hex, oct… etc. |

**Day2 :21st Feb 2023 (Tue)**

Strings in Python  
 User Inputs  
 String Indexing and Operations  
 String Slicing  
 Formatting Strings  
 String Methods

for loop

range()

list conversion : list()

print () function default parameters :sep =” ” , end =”\n”, file =sys.stdout, Flush = False

**\*\*\*\*\*Assignments**

**Day1: 20 Feb (Monday)**

**Execute all the shared sample codes in “Day1\_20Feb” folder first.**

1. Accept 2 numbers from user and print addition, subtraction.
2. Accept a number, print the square of it.
3. Accept a password, if it matches with “PYthonic@#20” then print the message as “Correct Password, Welcome!!”

Else “Incorrect Password, Sorry! Access Denied!”

**Day2: 21 Feb (Tuesday)**

**Execute all the shared sample codes in “Day2\_21Feb” folder first.**

1. Accept a string, check whether it is palindrome

Eg. “madam”

1. Display three string “Name”, “Is”, “James” as “Name\*\*Is\*\*James”

*(Hint: Just 1 line code)*

1. Convert Decimal number to octal using print() output formatting

*(Hint: Just 1 line code)*

4. Write a program to print the following number pattern using a loop.

1

1 2

1 2 3

1 2 3 4

1 2 3 4 5

### 5.Calculate the sum of all numbers from 1 to a given number.

### 6. Write a program to display below Star (asterisk) patterns in Python.

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Folder hierarchy to be followed:

PythonAssignments\ Day1\_20Feb

\ Day2\_21Feb

\Day3\_22Feb

….etc