MLP dainy notes:

1) What is Python and why is it called an interpreted languages

- Python is a high-level general- Purpose programming language knowners for its read ability & simplicity. It is railed an interpreted language. because Python code is executed. Time-by-line by the python interpreter Yather than being compiled into Machine. Code before execution. This allows for quick testing & debugging but can make execution slower than compiled language.
- 2) What are the key features of Python that make it Popular for beginners & Professionals?
 - * Easy to Leurn & Yeal Clean English like Syntax.
 - # interpretes & dynamically types no need for explicit variable declar-
 - * Extensive Standard library Supports many table (fire-handling, Math, networking, etc.)
 - * (YOM Platform Yurs on windows, macos, linux, etc.
- 3) What are the difference between Python 2 & Python 3?

Python-3.

* Print Statment

* Division 5h = 2.5

Unicode Suffort-

Ascriby default by

Actault 1

* End of support in 2020

Python -2

* Print ("Hello")

* 5/2 = 2 (integer (true divion))

* Shings are unicode.

* Officially ended.

* A Chively Maintainey.

4) what are Pythonia afficultions in seal-world Projects * Python is widely used in: * Web development (Dango, flask) * Data Science & Machine Ibarning. * (Panday, numbr. Toman from). * Automation / 8 cripping (+ ask, automation, both) * (4 ber seartly & Ethical Hacking. * Grame development. (Pygame). * LOT & Robertica. * Desitof & UNI Artherting. (graphical UNEY interface). 5) What is PERSE my is it imposted t in Python Programming? * PEPS (Pythen Enhancement Proposal). is the officer still guide for withy class, restable tytus

code it covers. naming conventions, indentation, line length Important, & move.

- * improve code Yeardability & Consistency.
- * manes It easier for teams to collaborate.
- * Considered a best fractice in the Python amminity.
- 6) who developed tython and in which year wait reless!

M* DEUCIOPET: Gruido van Rossum" * first releases: 1991

Guido began developing python in the take 1980s as a Succession to the ABC Programming language.

- 7) What do you mean by "dynamically types" in Python?
- Python is dynamically types; meaning you don't need to declare variable types expirity.
 - * The interfecter automatically determine the variables data type at Yuntime.

Example:

Python.

X=10 # int

X = "Hello"# 1 bring.

8) what is the difference between a complex & interpreter and unigh does python use?

* Aspey- interpreter.

* inter preter takker "single" instruction as input.

*No intermediate object code is Generaled.

* Conditional Control State mays are executes slower.

*memory Requirement is "less" (Example: "BASIC"

* Complier:

- * Complex Tokes "Entire Program as input.
- * intermediate object code is "Grenauted.
- * Conditional Control statements are executes "faster
- * more memory requirements
- * Program need not be "compiled" every time

Exi- 16 - "complex".