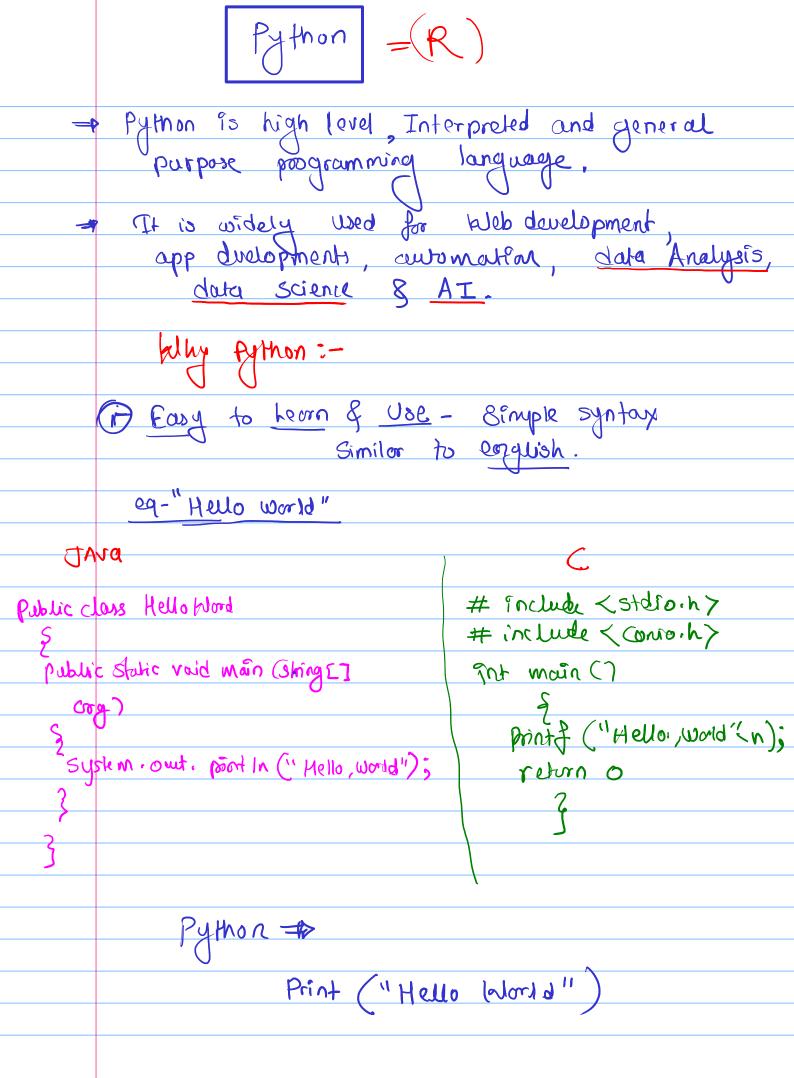
Bosic of programming.
Programming is the process of giving instructions
to a Computer to perform specific touses.
Algorithms :- A step by stop procedure to solve
a problem.
= Syntax :- The rule & Btruture of programming language.
programming language.
, 0 0
→ Variable :- Container that Store date.
Qq - x = 5 Tusher = 95
- Data Types: - Type of Value that san be
Stored 30 vonable.
$x = 5 \rightarrow \text{int} \text{ integer}$ $z = 5.5 \rightarrow \text{float}$ $z = 1 \text{ Twher "} \rightarrow \text{Smings} \rightarrow \text{Quotation}$ Monk
1 = 5.5 → float
smings - Quotation
North
x=True false => Boolean.
•
= operators :- Symbols that perform aperation.
= <u>Operators</u> ? - Symbols that perform operation. (+, -, *, 1, %, 11, <, >, <=, >=, ==)

Goodstional Statement: - = Decision-Making Statement (If, else, cuf)
(If, else, euf)
Loops : - Repeating Tasks (for, While)
Function : Reusable block of Code. (in built pefinable)
(in built / pelinable)
≠ input /output : → input () print ()
=> Error Handling 3-> Managing 2000 (toy, except)
Type of programming Language.
0 0 0 0
Tow level programming Canquete.
oronoise ode / Assembly Language.
010101 PLC / SCADA / 8085.
· ·
2) tigh level programming hangunge
-> Python, Java, Jave Snipt, C, C++ ele.

Compiled us Interpreted Languege	
Compiled : Code is branslated into Machine Language before execution (010101)	
eq- C, C++	
Ct DO,00110011 Pexecute Source Hundle	
-code Rot executed Line by Line.	
Occuleror > code = = machine ex	50
Interpreted : Tode is executed hine by Line. Oq - Python, Java Script.	
eq - Python, Java Son pt.	



- Desatile 2- use to web delopment, app development,

 AI, Data Analysis, Data Scie, Automation
 etc.
- 3 Huge (ommunity Support & millions of developers & Librories & Std. doccurrentation.
- 4) (ross-platform = > Work on Windows, Mell, Linux, androvid, IDs.
- E) Libronies & Framework :- powerful took like numpy, pandus, Tensor Flow, Matplotus , Seaborn.

Librarier - Math Library - Math Pandus - data Manipulate bleb deulop - Flask, djange

Librories one Glientin of pre-written code. that provide useful functions.

Less (ode, faster development.

module of A module in python is a fife Containing Python Code that can be imported and roused in other program. modules = (function, class, Vonable) Le Built-for-module :- pre installed. eg-(math, random, os) La User defined _ User Cotomise -- External module - ue need to instally eq-numpy, panders. Împort l pip înstaul Pandas. → pip înstaul Pandas. import Pandos. P:P -> python înstalling Palkage. = IDE (Integrated Development Environment) is softwore that helps programmes write, test & debug the Code. - Py Charun Google Colab. Vs code Jupyter Notebook · Bic vout Ad Spyder Laptop - install.