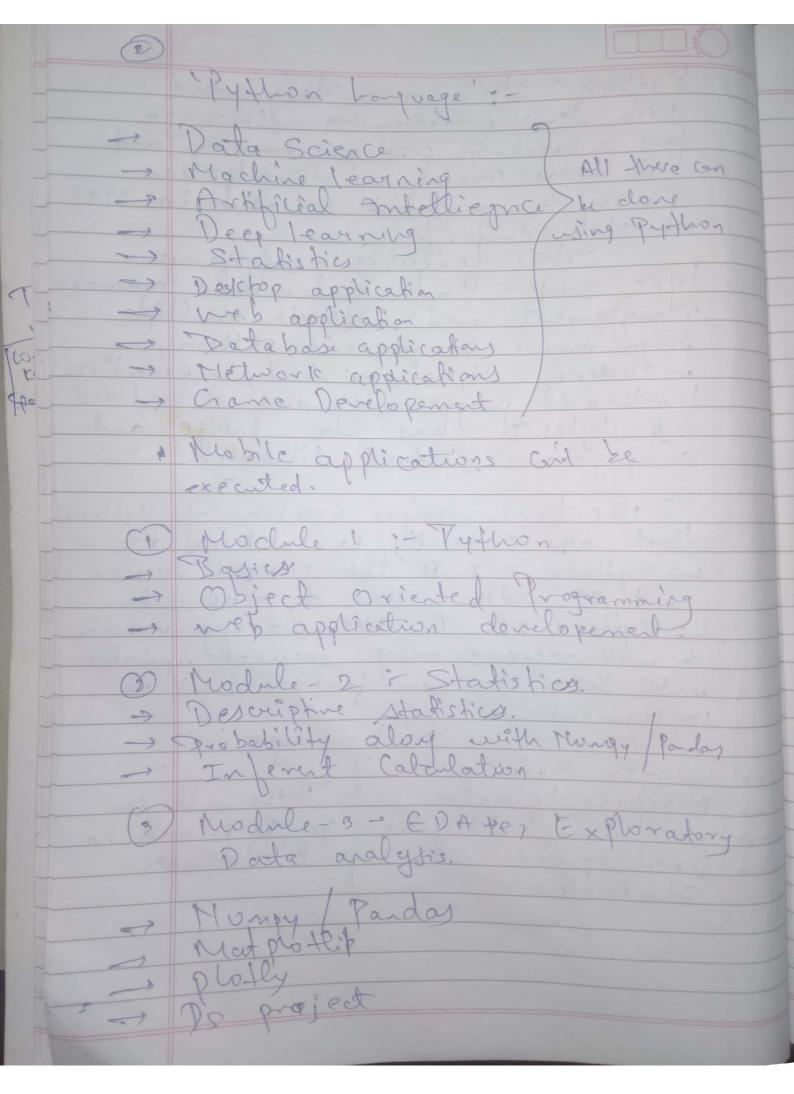
* Python : gt is a widely used programming language for general-purpose programming a Russian & was first released in 1991 at Mellerland. type system and automatic menory Maryement and supports multiple programming paradigme ie, pattern, including object - exicuted, imperati Junctional programming and procedural D& Styles. It has Ja large and comprehensive standard library! The two major version of Python that are coverently is achiet are: and is under active development Ly Tython 2.x & the legacy version 4 will recieve only secured updates ortil 2020, No new features will be implemented (R' Language! Data Science Machine learning Artificial Intelligence Deep leagning statistics?



- vieb Scraping (Text-data entry AR Emages)

Module 4: - Machine learning

Module 5: Deep learning Mision Mip & Computer * ACII > Artificial Creveral Intelligence NLP Decisionaling

Thay - Drive Ability 3 c.c Facial detection bacial recognition translation - Ride -> SPAM HAM -> PUBG - Read & Speak , ander Programming in Rython: * I/P -> Print ("Hello")

O/P -> Hello I/P -> name = imput ("Enter your name:")
print ("1-1-ello & 3, welcome 1". format (mame) O/P - Enter your nane: Alash Trigathis Mello Alash Tripathis, wellowe!

(W) Github -> similar to arrive Desictop application. ea: Calculator, Notepad, éte veb application:
ex:- Youtube, to druppon Google,
Anstagran, grand, spotsby. Scientific & Numeric Computing, ex- scipy, Humpy, Database applications:

1K:- Library Maragement Systems,

Phanma centical. Metwork applications ex: Metwork snifter Network Parameter Atraction Routing Algo's like OSPF. Pouting Developing games: er :- Battlefield , Sime 4, Poby-Data Science: ex: & Pardas Matphallib Seaborn, etc Machine learning:

AS ex. AIMA - AI; A modern approach 1x: Raspbewy Pi, Phillips (works great with low lend code in C++) Features of python !is simple & Easy to learn. cii) free & open source ciii) Creneral gungose & high level programming language (iv) Platform Independ

(v) Case- sensitive (upper & lower) Interpreted longrage Dynamically typed declare then as int for Hoat con anything. De, Mr, DL, Destetop & web applications or we can contre contie code using · rankeg It comments in pythony

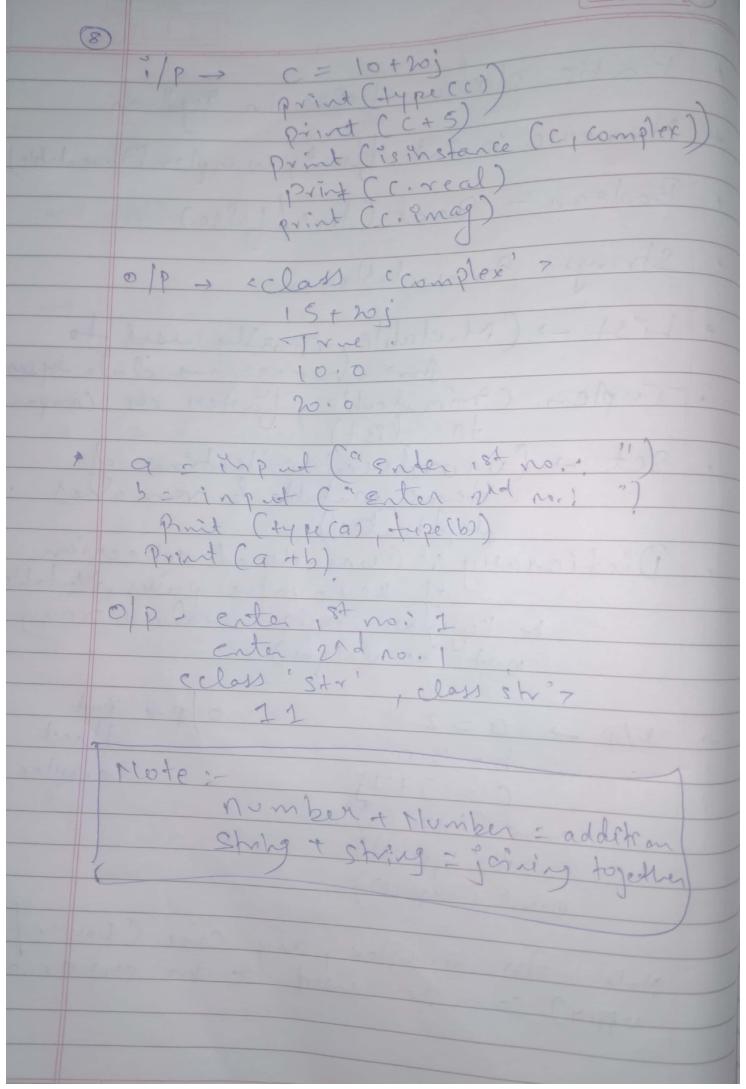
Allowed Charactery: * Alphabet Digits & Undercore Identifier should't start with Ho length limit Can't use reserved words Print (id (abc123) Print (id CABC123)) #id address of the monory. 010 7 14073220498480 14073220498800. everved word in Python: (35) fue list) goode it and get

A Batic data - types in Python * Numeric :- int, bloat, complex (Amoutable) · Boolean :- Bool (true/ Jalse) · Strings: Annutable · List > (Mutable, mostly used to Some homogenous data lypes · Tuples (mondable baster as compared to list)

Set > (unordered collection of items, mutable & remotes distinctes) Dictionary's-Cunardered collection

Rey-value pains, Mutable,

too keys our origine-values may not be unique) O/P > That bload complex I/P -> a=2 b = 3.0 C = 5+7 print (type (a)) print (type (b)) Print (type (0)) Note: In conflex, any case (Lower)



(9)	11P - a = 20
	print (a * pb) I power of semething ie y ab.
	0/P -> 400/
M.	Operators:
-	Arithmatic: +, -, * , 1, /, /, /, / , //, **
-	Robert
	Relational: >,>=,<, <=
-	Equality: == != > not equal.
→ →	Lagical: and wmparison.
7	Logical; and, or, not. Bitwise; &, 1, 1, 1, 1, 27
	Alsignment : := , += , -= , *= , 1= , etc
_	ternaly,
-	Eda vila de es a Contra
	Felentity: is, is not (when for address
-	membership: in not in (for while)
	b=2 b=2 b=3
	Print (a/b) Print (Q1/b) print (Q1/b)
	0/P -> 10-0, 01P-> 2 0 010 => 0-
	gine renait