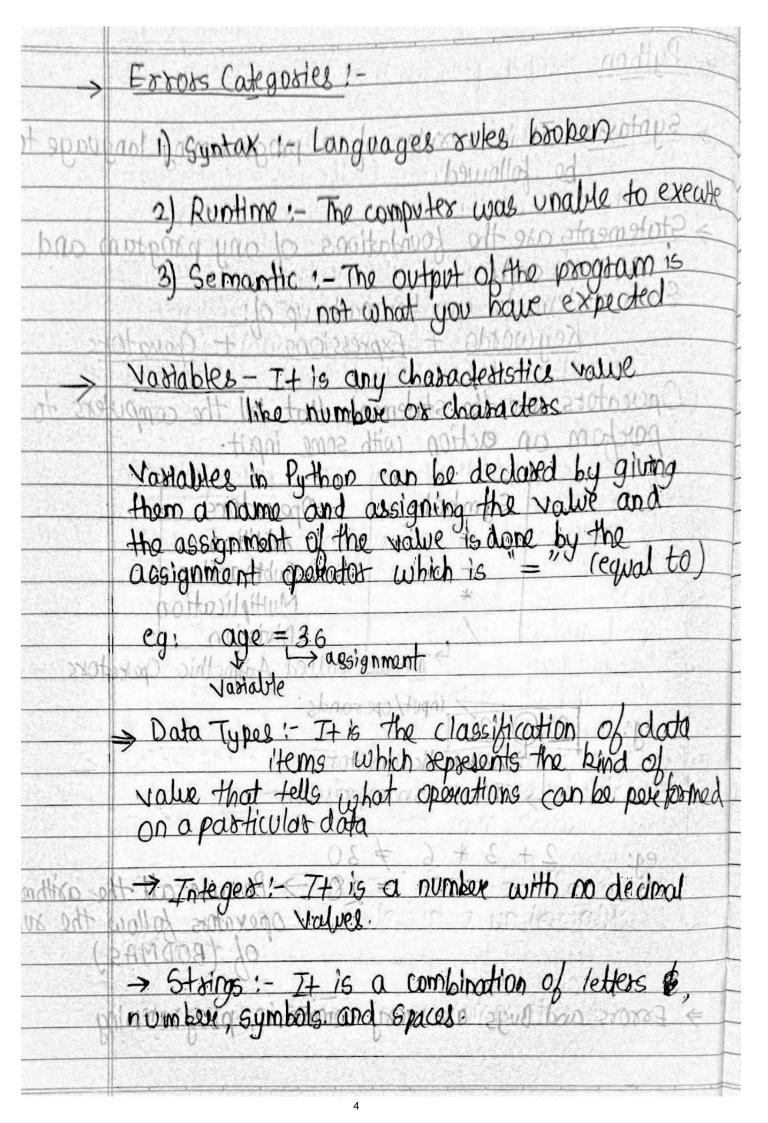
Page No. 0/22 \* Programming Languages \* What is Programming?

The It is the process of the converting ideas into Instructions that computer can understand and execute. These Instructions are specific and sequential. eg: consider a tea which requires different ingredients like sugar, water, tea leaves, girger inwhich is put in sequential and specific amount. Bug- When something unexpected happens is called bug. Crash - When programs of softwares stop working or Orders and Sequence matters in the programming. > Programming can also be defined as gluing computers
the right instructions and the correct sequence of steps to produce the desired result. There were tong and thousands of programming languages strengths and and each comes weaknesses. \$ 1 i.e binary code Computers only under stands language and all the code we write in english is converted to machine language so that computers can understand our instructions.

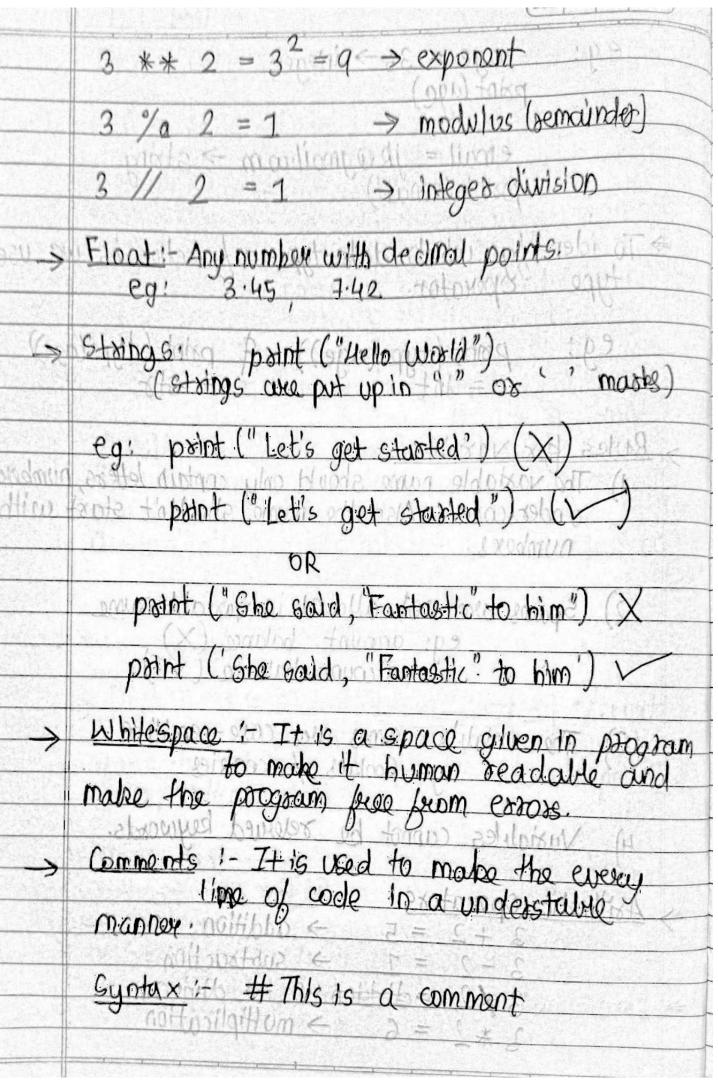
1

	Date
->	Source Code - It is a code withh by programmen for the softwares and products.
of as	There are 3 methods to convert source code into machine code  I Compile It 2) Interpret it 3) Both
hoils po	1) Compiler: - It takes high level programming languages and turn it into an executable that contains low level machine code.
o poleko	2) Interpreter: - The interpreter process our source
2015 PO 240140	⇒ Compiled Languages: - C, C++ and Objective-C   ⇒ Interpreted Languages: - Php & JavaScript
nywygel is apd cocle english campak	Jombination: Java, C# & Python  IDE's (Integrated Development Environment) is  used to write source code. — It is an application that provides the special tools needed to write, debug and compile code.

* Python		Exyass Call govies 1-
Syntax:-	It is a xules o'	La programming language to
nanto to exer	U and IXH vgroo	2) Runtinot-The
Stulements c	ase the foundati	ions of any program and
Source	code Hillion	ions of any program and
Each statem	vents can be m	nade up of!
Key	words + Expr	ressions + Operators
Syllov &	THE HOUNDAY WO	in a AT - 29 division les
Operentors	wee the statemer	its that tell the computers to some input.
porfom	an action with	some input.
LAND LINE	knlogh on any	CONTATION SON DECEMBER
1 Times Fulat	Symbol	Operators and
of un	maket swamp	Additioned
of town to	= " ef dolden	Subtraction 10
1	*	Muthplication
	//	Division
	17 This aver	e called Aritmethic Operators
		Lande Similar
eq: 3	A) 2	St 1 Dopo Topo 2 1 1 12
her knight	S ANH metic opera	408 EM 241 14 M 280th
31100 De 0100	This is an ex	pression that aday remains
	7 1015 15	The Hora pay House dust
eq: 2	+3 * 6. 7	30
langs bean all	in wording i=	18 -> Because all the arithma
THE THIS PART THE TOTAL		poexators tollow the sul
Action of the second		
		of (BODMAS)
Vollar da	anthred loven o	of (BODMAS)
s rotter la	anthyllam p	operators follow the sule of (BODMAS)  common in programming



	Date
	eg: age = 36 > integer
	THE HUMBELD OF THE PERSON OF T
	e mall = jk@gmail.com > string  print (email)
	To identify which data-type a function is we use type operator.
	eg: proint (type (age)) & print (type (age)) = str
	Rules for variables: - to a tol" tolad 10
7	1) The rastable name should only contain letters, numbers and underscores. Also the name shouldn't start with numbers.
	40
	2) Spaces are not allowed in variable name
	eg: account balance (X)
	and of Haracount Dalance (V)
d i	3) The vortable names are case-sensitive
	egu Cookies # cookies
	make the program face facin errors
	4) Variables cannot be reserved keywords.
	morning to be not bell of the ormality officers
->	Arthmotic operators of the land
	$3 + 2 = 5 \Rightarrow addition \cdot volume $
	$3-2=1 \rightarrow \text{subtraction}$
	$3 * 2 = direction 1.5 \Rightarrow division$ $3 * 2 = 6 \Rightarrow multiplication$
	5 A Z 3



	Date
Problem 1	
Code!-	PHntl"Challenge 1:")
	# A message for user
	# A message for user  message = "This is going to be yeary thi  Message = "Very tricky!"  Print(message) # show the message
	# Restorm mathematical operation sesulf = 2 * * 3
	pxint("2**3=" result)
	7egult = 5 - 3 # paint ("5-3=", result)
	print ("Challenge completed!")
<u>Soin</u> ,	This is going to be they thicky I message
2	Very Tricky Message
	paint (0)
3	2**3=8 result
	print $(1)$ $\Rightarrow$ $2**3=8$
	2
<u> </u>	2   result is now updated to