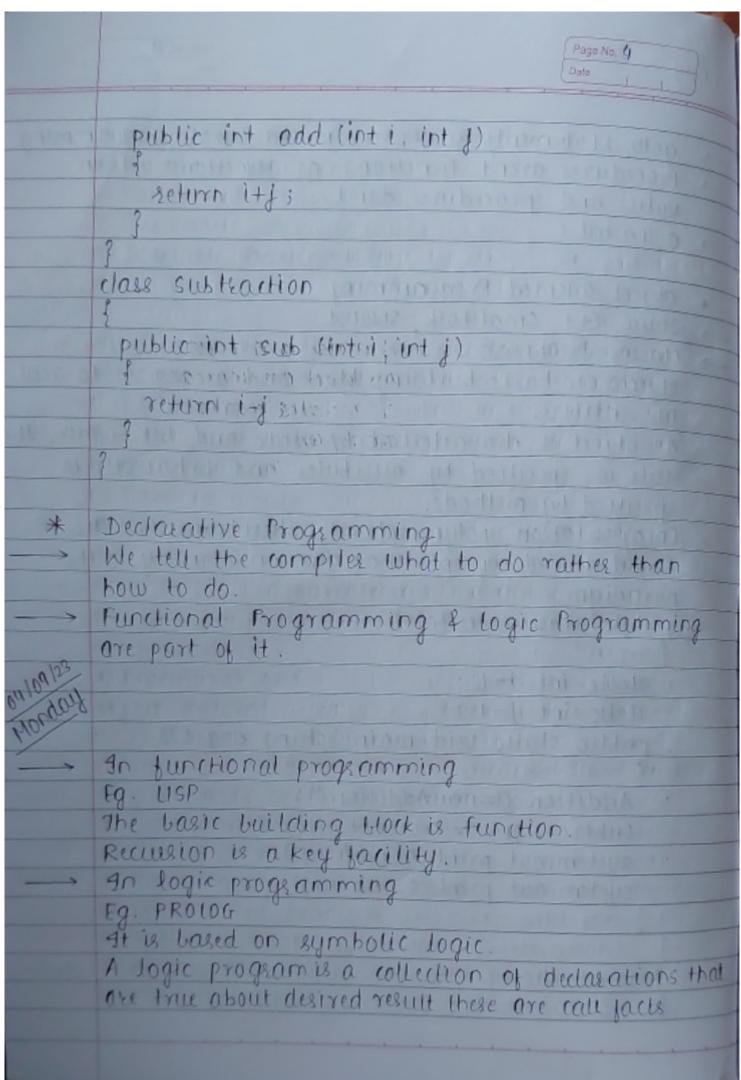
28/8/23	
Monda	Page No. 1
	Date
	UNIT 01 INTRODUCTION TO PROGRAMMING
	PARADIGM
	billy bears
	Why learn programming language?
->	To improve your ability to develop effect algorithms
->	To improve your use of your existing programming
	language.
->	To increase your vocabulary of useful programming
	constructs.
->	To allow a better choice of programming language.
	To make it easies to learn a new language.
\rightarrow	To make it easier to design a new language.
	Peoplem Colving required following clans hecalle the
	Problem Solving requires following steps because the qualities of the language for expressing the
	solution must be such that the persons spends
100	more time in solving problem and providing
	1) Define the system
mbi	2) Analyse the defined system 1910 hold
	3) Detail system specification
LAIN	4) Design the system minimum of land of
	5) Implement the design 1 1 miles 1 miles
	6) Testing and debugging
	7) Validation
Lide	free de coulez sens la constant plane de villa e
	Types of Programming Paradigms
	1) structured Programming / structural (c)
	2) Object Oriented Programming (Java, C++)
	3) Functional Programming (LISP)

	Page No. 2
	4) Logic Programming (PROLOG)
	5) Event driven Programming
	6) Concurrent Programming
	7) Distributed Programming
203	8) Database Programming
30/8/2023	The public room to the room of the
Thesas	
10	I programming paradigm isn't tollowed.
	1) gracesed complexity
1	2) Les readability
1	3) Improper structure
1	4) Hard to test a min hall hard to test a
	,5) Hard to change
1	6) Maintaining will be hard
	All printingly of the popularity of the sent matter
•	Programming Paradigm
	The state of the s
	Amposotive Declarative
	1) Procedural and 1) functional & logical
	object oriented programming paradigm
	mitariting only light to
•	Structured Programming / Procedural Programming
>	key Features of CiProgramming:
	1) sequential exquistion execution of instautions
	2) Use of variables representing memory locations
	3) Use of assignment of change values of voriables
	4) Conditional branch & iterative statements
	5) Recursion as an alternative to iteration.
>	Functions have return type but procedures don't.
	* Difference between function & procedure 3*

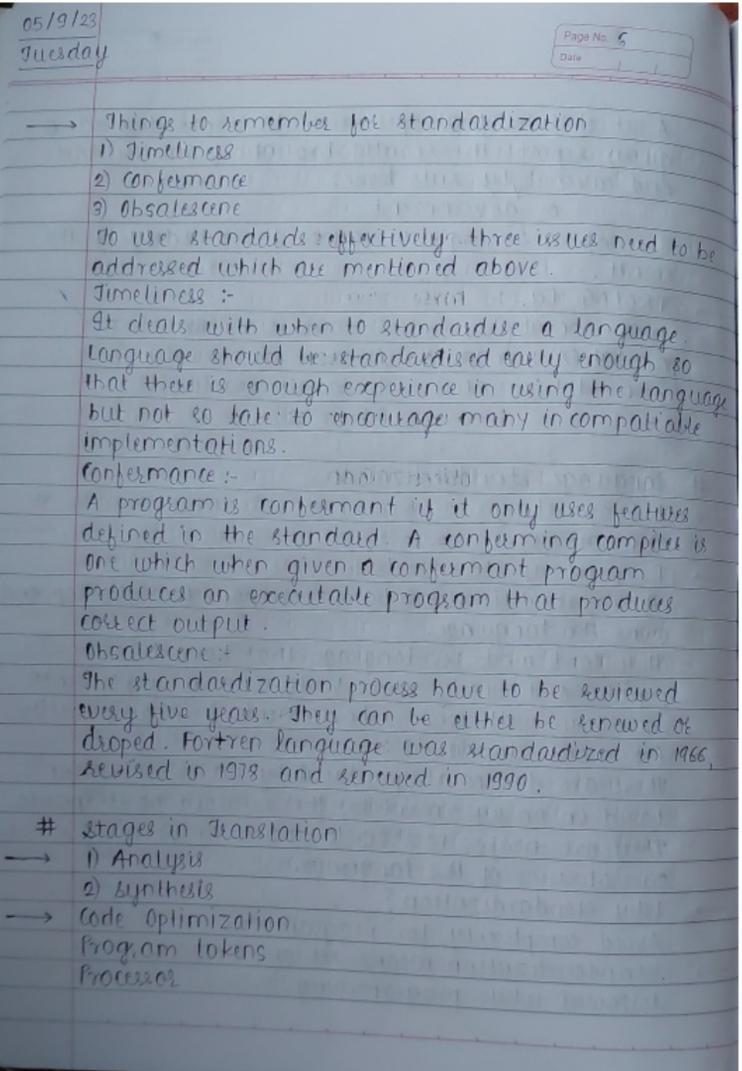


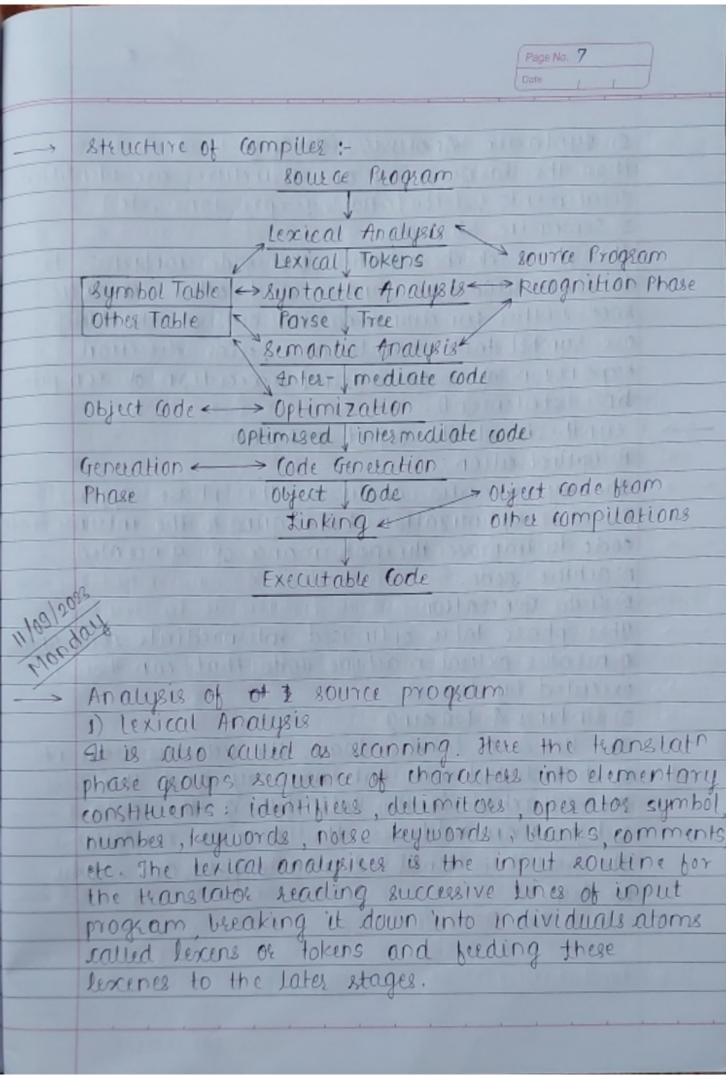
A set of kules that operate on facts are defined a: gury reports the results brought from the facts and covered, by rule base. or government The injectence engine ensures the validity of the PROLOG Eg.: man (socrates) Sociates is a man mortal (x): man (x) All men are mortal 3-mortal (sociales) 4s sociales mortal ?11 all to to to the total of the t Language Standardization

1) Proprietary

2) Consensus Proprietary standards: These are definitions by the company that develop and owns the language.
They don't work for languages that have become popular and widely used. Variations in implement soon occur with many enhancements & incampabilities. Consensus standards: These are documents produced by an organisation based on an agreement by the relevant participants. They are major method to ensure uniformity among several users of the language. Why standardization?

Avoid complexity for programmers Standardization means set of protocols to be followed while programming.





2) Syntactic Analysis (Parsing) (statements, declarations, expressions, etc.) 3) semantic Analysis
This phase checks whether the code confirms to the larguage type system and other semantic soots. Other functions carried out in the stage are symbol table maintenance, and detection expansion of macros and execution of compile time statements. morning are to the forth synthesis of the object program 1) Optimisation
The systemantic analyses. This phase applies various optimization techniques to the intermediale code to improve the performance of generated 2) Code Generation This phase takes optimised intermediate code and generates actual machine code that can be executed by target 3) linking & loading
The linker or loader loads the various segments of translated code into memory and then uses the attached loader table filling the data 4 sub program addresses the code as xondition. The result is final executable peogram ready to run.

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UNIT 02 INTRODUCTION TO JAV	A N
PROGRAMMING	DUNIA
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· History In the Allen had the	3 1 3 0
Taua mae priorin colled as bak	
-> James Ghosling, Patrick Naughton, Mikel Bill Joy :- invented Java	snee down,
Bill Joy : invented Java	C. I.O.
-> DUDRED DU XIID MILITOSUSTEIDS	
-> Chentiati high invented into aville Jum	CL Francisco
from coffee beans brought from Java isla	net . Inde box
THAT I DO DO DO TO THE TO THE OF THE	EA II LLC
icon of coffee mug.	- 10
Tour	
· (++ Java	1 1 1 (1 B
-> 1) Not purely OOP 1) Purely OOP -> 2) Pointers don't exist! 2) Pointers are	diminated
-> 2) Pointers don't exist! 2) Pointers are because they !	con 3
compromise sys	tem security
because they	tore
memory location	
-> 3) goto () exists 3) goto () does r	
-> 4) Multiple Anheritance (4) Multiple Anh	A TOTAL PROPERTY OF THE PARTY O
-> 5) Access specifiels (3) 1-11 5) Access 18pecif	
Public, Private, Protected Public, Private	Protected,
The ambient of the Follettinh or	nds dil
-> 6) Allocation & deallocate 6) Allocation &	deallocation
of memory is done by of memory is	
programmes JVM (Java VI)	
-> 7) Operator Overloading / 7) Operator Over	-
-> 8) constructor 8) constructor	V
Destructor Destructorx	

