## Futorial-01

Page No.

	, Date 1
03-1	Define the following terms
_	1. Compiler 2. Interpreter
	3. Assembler 4. Linker
	5-Loader
8-2	Differentiate compiler and Interpreter.
05-3	Explain semantic gap.
81 a)	Compiler = compiler = converts
	the source code which are turities in high
	level language to low level machine understemble
usembl	y language by minger, the converted code is assembly
	longuage, input to compiler 18 output of preprocesses.
b	Interpreter
	It is a software that converts the source code into
	machine unders temball code dine by line.
	The test stat Each statement is executed before
	interpreter issoves to next statement, wi This all is
	Soone without converting the entire source code to
	object code as machine code, ex. python interpretes.
C;	A ssempler 3 It takes input from output of commiles
	Assembles 3 It takes input from output of compiles which is assembly fevel code and converts them into machine level binary tomptrage It is basically compiler of assembly language. The output is in binary.
	them into machine level binary tomerage It is basivalle
	compiler as assembly Congrego. The output is in binary
	The state of the s
d	Linker 3 It takes output of Accembles, which is object
	rode from on in binary and nothers them
	and links them combines them into single executable
	file. This combining includes library we impact in
	cost to

***************************************		Page No.  Date
	e\	Loader = It is a system software (part of O.S.)
		which to is responsible feer loading programs
		and libraties. It places programe into
1		memory and prepares them for execution.
	8-2	Compiler Interpreter
1	TP.	Source code. assembly large code,
Y		It translates extise source It translates each statement
		code from preprocesses to one by one beforma
t	,	machine code (assembly long) before moving to next
		at once. Stedement, current state-
		ment is executed.
		It scoms entire document It sams document untill
		even if multiple errors an error comes at that
		are found. particular statement. No
•		further document is scamed
,		after that statement.
	٥	converts source code to does not converts ibid
		object code directly executes line by
		line
	eg.	C, C++, C++ Pytron, Ruby.
	03	Spannestic and is and bles and interest of a span discounting
•		Sementic gap is gap by application & execution domain,
_		and ascently level longs tool
_		The Interpretation of or conversion done by diff.
_		high level megranning lang, may differ and that
_		high level magramming lange only differ and that difference is called semantic gap. The difference in
		source code 4. object code.
	1	