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	ASSIGNMENT 3
	Têtle : Macro Processor
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	Problem Statement; Study assignment for macro processor (consider all aspects of macro processor)
	all accrete of macro processor)
	aspects of macro process
	Philippe . To study house hunching of macro processor
	orgenives: 10 senay basic glorenorary of
	Objectives: • To study basic functioning of macro processor • To study working of nested macros
	Theone What Po man emerally?
	Theory: What is macro processor? Macro represente a group of commonly used statements in the
	course provamento language:
Α.	Source programming language. Instruction Macro processor replaces each macro definition with the
	corresponding group of source language statements. This is known
1	as expansion of macros.
0	Using macro instructions programmers can leave the mechanical
T. T.	details to be handled by the macro preprocessor
0	Macro processor designs are not directly related to the computer
7000	architecture on which it runs
	luce a sunt forolyse deligibles invocation and expansion
	MACRO DEFINITION
۰	MACRO - identifies the beginning of macro definition
٥	MEND - identifies the end of macro definition
	Eg: MACRO
	INCRA & MEM_VAL & INC-VAL, & REG
2 Senet	MOVER DREG , LMEM_VAL
	ADD ERECT &INC_VAL
- Iduar	MOVEM LREG &MBM_VAL
	MEND
	Macro Call :- INCR A, B, ARECT
1	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Parameter Passing Methods in macro
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*	Data structures needed for macro processor
)	MDT (Macro Definition Table): • stores macro definition including macro prototype and macro body • References to the macro instruction parameters are converted to a positional notation for efficiency in substituting arguments.
2)	MNT (Macro Name Table): Etones macro names which serves as an index to the MDT. contains pointers to the beginning and end of the definition.
3)	ALA (Argument List Array): · Used during the expansion of macro Privocations · When a macro Privocation statement is encountered, the argument stored in this table according to their position in the argument list.
- Ap	Nested Macro Lall: A macro may constitute a call on another means. This is known as nested mano call. It has the following types:
1)	Call within macro definition & when a macro is called I invoked inside the definition of another macro. Eg: MACRO ADD & A ADD & A ADD & AI & Maoro ADD invoked inside MEND ADD & A3 ADD & A3 MEND
2)	Definition within definition & Macro definition within another macro definition. The Inner macro definition is processed during the outer macro expansion.
	Outer macro definition Inner macro definition

