Practical no: 2

Problem Statement: Implement Pass-II of two pass assembler for pseudo-machine in Java using object-oriented features. The output of assignment-1 (intermediate file and symbol table) should be input for this assignment

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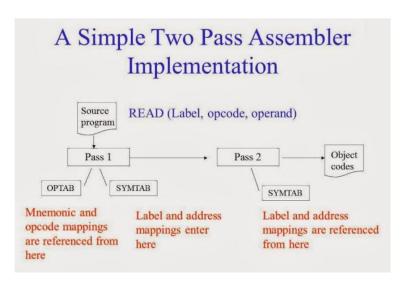
Subject: SPOS

Div: A

Roll no: 02

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	Spos Assignment A-2	Aditi Dinesh Mulay T.E. Wonp Div: Ad Roll no: 02
	Aim: To design data struture	for Pass-II Assembler.
	Theory: Two-pass Assembler The two pass assembler over the source program. In reads the entire source program label definitions. All labels ar address, and placed in the s pass, no instrutions as ass the symbol table should cont in program. To assign addre maintained.	the first pass, it ram, looking only for se collected, assigned symbol table in this embled at out the end tain all labels defined ass, to lables LC is
	Data Structuces! 10t 110130 . 11113	
(- Location Counter CLC, points where the code will be pla - Op-code translation table c instructions their lengths & - Symbol table contains label String Storage Buffer- contain - Forward Reference Table CFR the string in SSB offset	to the next focation ced. ontains symbolic their op-wdes s. 4 their values. IS ASCII characters for the contains pointer to
tat o lara	inserted in the object code.	



ruld,	Algorithm, Algorithm,	
	begin plant the sage and is provide	
	if starting address is given	
	LOCCTR = starting address;	
10111	elsenger mus ritured but	
barrie	LOCCTR =0; 11/1 englished	
+111	While OPCODE LIEND do	
1	to de la begin a malurdaci al sang	
	read a line from the code	
. 1)	if there is no label	
	if this label is in SYMTAB, theo error	
	else insert (label, LOCTTR) into SYMTAB	
	search OPTAB for the op wde	
	if found	
44.51.1.1	1 Texas and clocate += NIT Total por professor	
1	elselif this is an assembly directive	
	update tocom as directed	
	else error din de la militaria de	
8	write line to intermediate file	
x = 2 1 1	and reend employmentally and	
	program size = Locate - starting address;	
31311	gendomar Crist Jair mar har i garie	
d Tarry	Was in really decide and of the college	
	Conclusion: Thus we have generated martine code for	
	source program.	
	197 117 128	

Program: