	Mame - Alok Bhawankas
	Roll no PAGG
	Panel - I
	MIT WPU
	4.00
	33C Theory Assignment No.:1
7	
017	Construct an algorithm for Pass I of a 2 Pass
	Assemblez.
Ans	: ALGORITHM
	1.   loccontz = 0
	2 While next stellement is not an end statement.
	3. IF label is prisent then
	4 this lable = symbol in label field
198	5. If an LTORGO Statement thin
3	
1,	Process literals IT TTAB [pool tab - ptr][ptr-1]
	to accurate memory and put address field update
	Loc - cntr
* .	
ii.	Pool telb - ptr = pooltab ptr + 1
	and the second of the second o
- 111	Pool telb [pool telb - ptr] = 1: blab - ptr;
	6. Enter (this label loc lants) in SYMTAB
	All the second s
	7. It start or origin statement thin
	d Loc Cole = Value in operand field
	3. If an Eau statement then
	this address value of <address 3="" per=""> 3</address>
	updake the symtabentry.

9. The an alectaration strot then

code = code of declaration strot,

size = size of req. by DC/Ds

updak SYMTAB entry

loc \_ cotr = loc entr + size;

10. If an imperative 5+m+ then

code = m/c code from MOT, we-cn+r = Locco
+ length of instr.

11. The operand is like all then

this. like all = like all in operand field

1777AB [littab - ptr] = this - lit.

littab - ptrz = littab - ptr + l

else this entry = Symtab - ptr + l

54mtab - ptrz = Symtab - ptr + l

O2] Summarize the problem of forward references in the distinct errors handled by 2 pass ossembler

Ans: 1. Rate for an assembly program states that the symbol should be deduced somewhere in the program

2. But in some cases there may be chances of using symbol prior to its defination which give rise to forward reference problem.

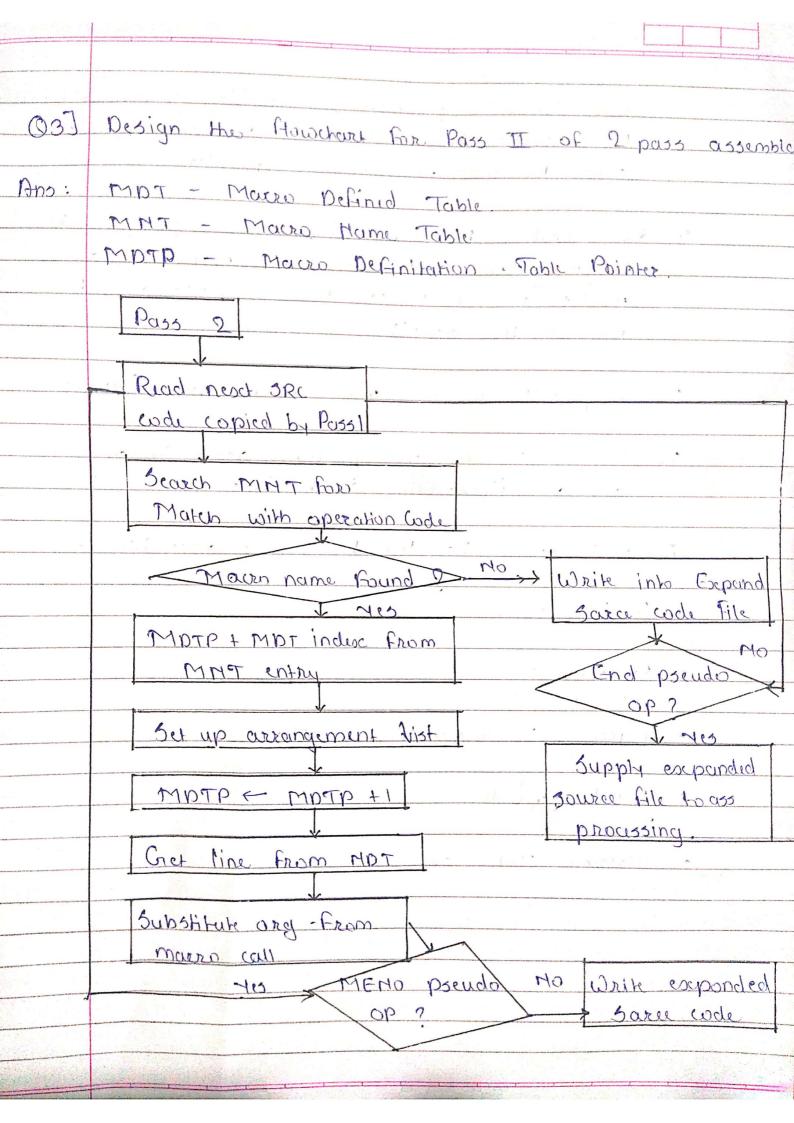
4 The solution for forward references problem as disigning and assembler with a pusses. The creates no. of passes that is necessary to process the definition of symbols.

5. In pass I we find out symbols and literals

6. In pass IT we will perform assembly of code and data Generating instruction of data I

Different errors handled by 2 pass assembles are:

- · Syntax, ceron
- · Semantic error
- · Reference to undefined variables.
- · To valid , apcodi
- · Missing START OR CHA!



parameters caritten while  macro is called  KEYWORD PARAMETERS — Here the position of the  parameter does not matter, they always end with		
Macro by giving example of each.  Ans: The different types of arguments used with macros.  are:  Positional arguments.  Netaul arguments.  Mixed arguments.  Positional parameter during parameter during macro call acceptaing to position.  eg Macro  M, &P, &P, of Ps, of Ps  Menp  Call — M, &P, &P, of Ps, of Ps  Menp  Call — M, &P, &P, of Ps, of Ps  Menp  KEYWORD PARAMETERS — Here the position of the parameter data not malter, they always end with parameter data not malter, they always end with parameter data not malter, they always end with formal parameter.		
Positional arguments.  Rey board arguments.  Default arguments.  Mixed arguments.  Positional parameter during parameter during macro call acarating to position.  eg. MACRO  M. & P., & P., & P. & P.  MEND  MEND  Call — M. BREG. P. B actual parameters conitten white macro is called  KEYWORD PARAMETERS — Here the position of the parameter does not matter, they always end with parameter does not matter, they always end with the sign.	04.	Explain the different type of arguments used with macro by giving example of each.
Rey board arguments.  Default arguments.  Miscal arguments.  POSTTTOMAL ARGUEMENTS — Copying actual parameter in place of terminal parameter during macro call acarating to position.  eg. MACRO  MEND  Call — M. BREG. A. B. actual parameters caritten while macro is called  KEYWORD PARAMETERS — Here the position of the parameter does not matter, they always end with end of the parameter does not matter, they always end with end of the parameter does not matter, they always end with	Ans:	The different types of arguments used with macros.
parameter in place of terminate parameter during macro call acarating to position.  eg MACRO  M. & P. & Of P.2. of P.3  MEND  Call — M. BREG. A. B. actual parameters coritten while macro is called  KEYWORD DARAMETERS — Here the position of the parameter does not matter, they always and with each of the parameter does not matter, they always and with each of the parameter does not matter, they always and with		· Key board arguments.  · Default arguments.
MEND  Call - MI BREG. A, B actual  parameters corriten while  macro is called  KEYWORD PARAMETERS - Here the position of the  parameter does not matter, they always end with  "=" sign while calling write the formal parameter."		parameter in place of terminate parameter during macro coll acarding to position.
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