	Shreeya Thigale
	TE-IX
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	ABSIGNMENT-12
	117/E: LEX 4 YACC for Intermediate Code germation.
	PROBLEM STATEMENT: Write a program by intermediate
	code generation using les and YACC for
	PROBLEM STATEMENT: Write a program for intermediate code generation using Lex and YACC for Control flow Statement. (Either while loop or smith care)
	Broth case)
	OBJECTIVES:
	o To cendesstand fourth pase of compiler: intermediate code generation o To learn and use compiler writing tools. o To learn how to write address code for
	intermediate code generation
	o to learn and use compiler writing tools.
	· To lean how to write address code for
	given stækment.
	THE DRYS
	In the analysis-synthesis model of compiler,
	M. hant and analytes a said free
į.	and creates as intermediate representation, from
	which the back end generals governor are
-	and creates the such end generates target code. which the back end generates target code. Adeally details of source language are
	confined to the fact and the point end
1	target muchine into an intermediale
	translation a gource program into an intermediate
	representation from which the back end generalis taget code
	generales larget code
E (18 %)	

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	Intermediate Larguages
	Three ways of intermediale representation: System tree
	· Syntax tree
	· Postfix notation
	· Thre address code
	Skys to execute code:
	July State Cold
	1. I lex filenamel
	2. A was -d Blenon of
	3. & co Por une 11 tobes -ll -lu -lon
	2. 9 yacc - d filename. of. 3. \$ cc lex.yy.c y.tab.c -ll-ly-lon 4. \$./a.out
ALL ALL SHAPE OF A PARTY OF A PAR	5. eg (emol
Total server server	6. Eg. Comp.y
200 Personal Property And	Africa Pirtent.
A DIMENSOR DAN MARIA	ALGORITHM:
	1 Declaration of 1 1 kg
State Control of the	1. Declaration of headn files specially y-tab. h. 2 which contains declaration for letter, digit,
The state of the s	and contains declaration for letter, digit,
and the same same same same same same same sam	2 8 1 1. 1. 10 D
	a Mula de
CONTROL CONTROL CO	1. Matth regular expession
	match found then convert it into char t
	2. End declaration section by %%. 3. Match regular expession 4. If match found then convert it into chart Store it in yylvalsp when p is pointer declared in yacc 5. Petern token
-	en yacc

	6. If input contains new line character (14) then
	return O.

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7 9 input contains	then refun yylext[0].
2. End quele-action se	ction la 70/
9. Declare main function	n
10. Open file given at	Command Para
11. It any error occ	Clas Her Dock and I al
12. Assiso lile nointu	cus then print error fexit
	J) C JOIN
13. Call function yyle	unici jeli eneks.
Vacc	
YACC program	
	12/
1. Declaration of header	//
2. Declare structure for	A . A . A
representation hering	field of arguments,
argument 2 operator, rese	1 # i i
3. Declare pointer of	char lype in union
4. Declar token ex	er of lyne pointer p.
5. Give proceedence to "*	2", \ / "
6. Prive precedence to "-	1 0 0 0
7. End of declaration	Section ly 7, %
8. If final expression	of the John Wallalls
& I then add it t	To the stuble of three
address code	
m de set time is	expussion of Join
in of en "+" exp then	add 10 masa we
a cument arcient	rt 2, operate
was an thin	out IV
argument 1, agument. 12. 28p 9" exp then	2, operator
12 Epin (&" exp then	add to table the
L XI	

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_	13. Exp"/" exp then add to table the arguments
	13. Exp"/ exp then consta
_	"4. "(" exp")" then assign \$2 to \$\$
_	14. (exp) the assign \$1 to \$1
	15. Digit OK letter by %.%.
_	
	17. Delan file yyin externally 18. Declare main function and called yypane
_	18. Declare main juntier ends
	function centil upper ends
	19 Declare yyerror for if any emor occurs 20 Declare char pointer 3 to print error
	20. Declare char pointer s
_	21. Print error messages
_	22. End of program.
_	
	CONCLUSION:
	Thees we han successfully implemented program for intermediate code generation using 1.Ex & YACC for control flew.
	mayon for intermedial and and the
	1Ex & YACC for combool less
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