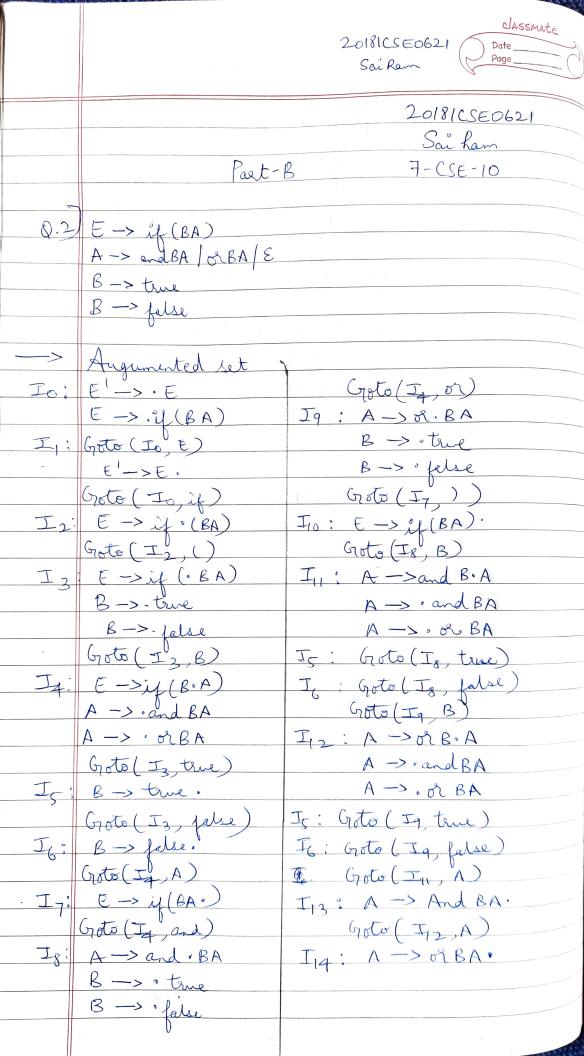
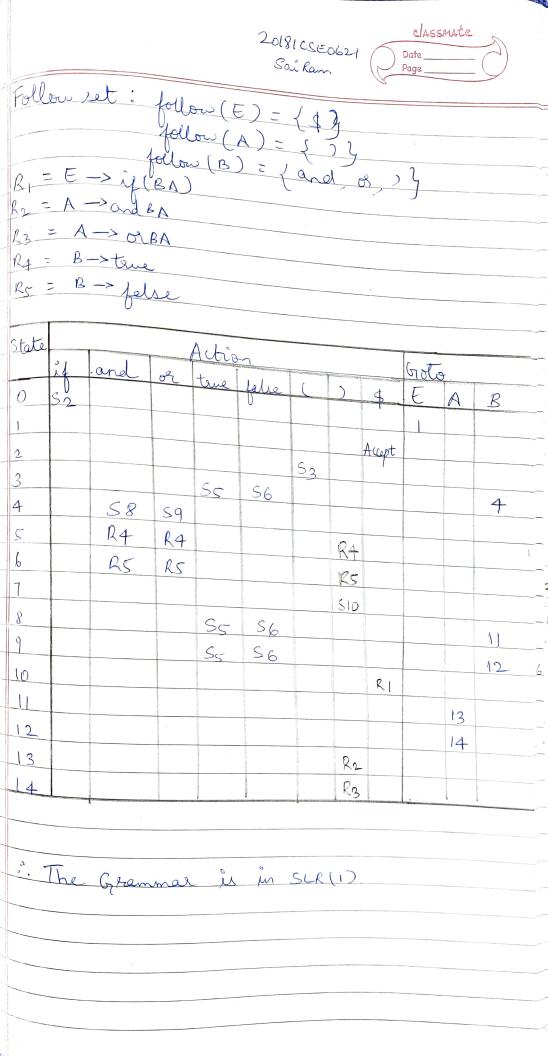
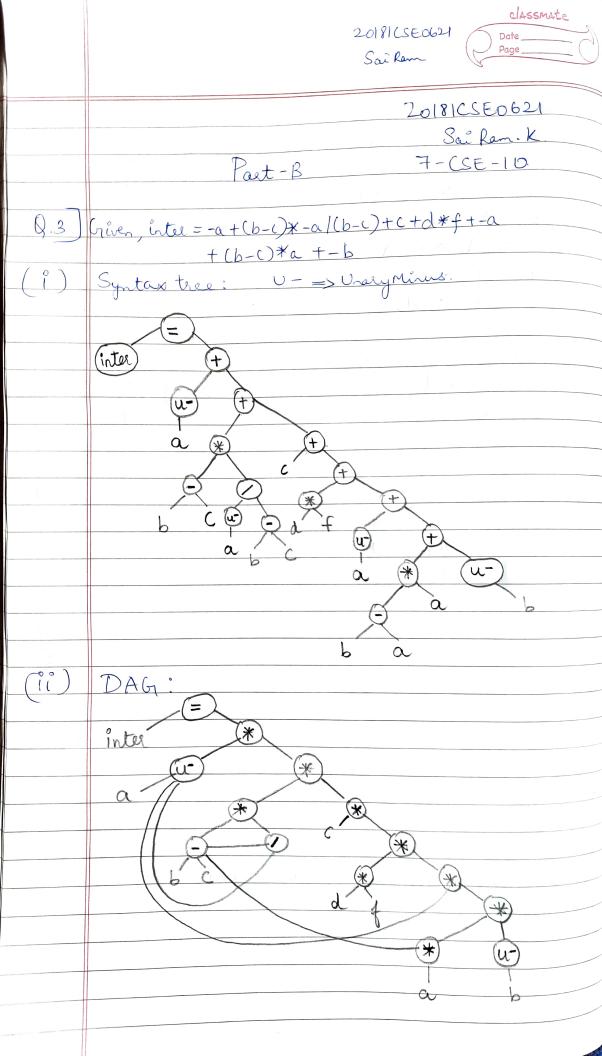
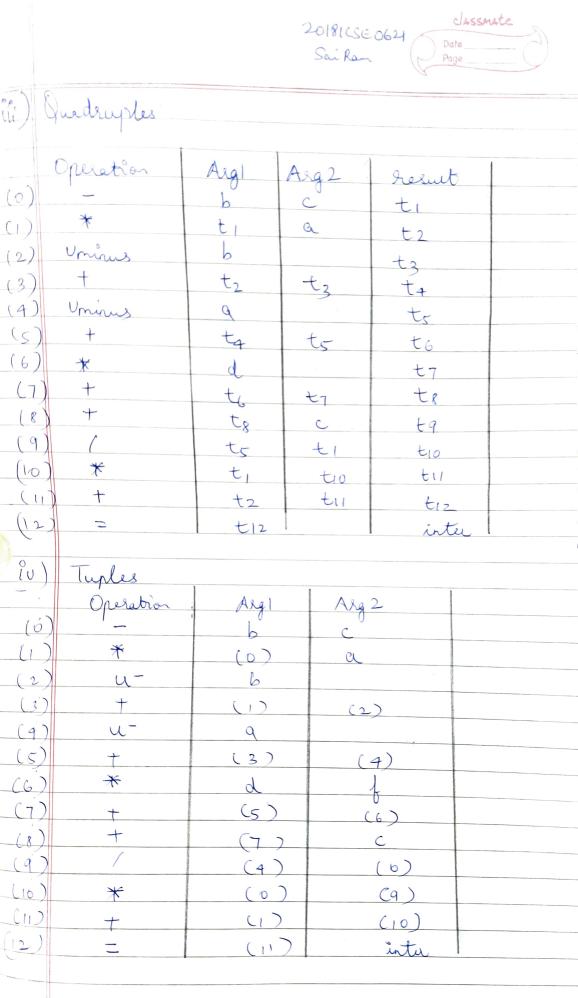
		20181CSE0621 Soi Ram	DatePage
		20181CSE0621	
		Sai Ram.K	
	Part - B	7-	-CSE-10
	10000		
0.1	fact=1;		
	db=0;		
	for(i=1;ic=10;i+t)		
	if (fact == 120)		
	bleak,		
	fact = fact * i'; ab = ab + fact;		
	ab = db + fact;		
	7 11 (12		
OL)	Three Address Code		
	fact = 1 ->	leadie	
(2)	alb = 0		
3	€= 1		
4	4 (i > 10) gote 13 -	-> leader	
5	if (fact == 120) gote 13 - t, = fact * i - fact = t,	-> leader	
(6)	t = fact*i -	-> leader.	
	fect = t, t2 = db+fact		
8	db=t2		
	$t_3 = i + 1$		
	i=t3		
(12)	goto 4		
(13)	crit		
. 7			
b]	Leaders: () fact = 1		
	9 y (°>1	0) goto13	
	(5) if (fact	==120) goto!	3
	(6) t ₁ =fa	J+1	

classmate 20181CSE0621 Sai Ram Control flow graph: fact=1 db=0 t,=feit*i tz=db+fart db=t2 tz=it1 ietz







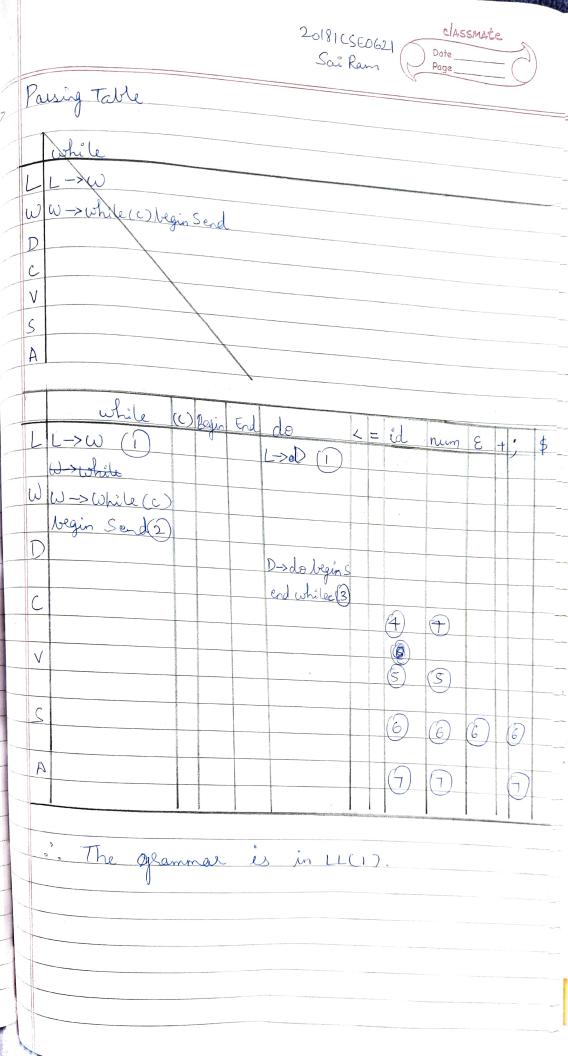


20181CSE0621 Sai Ram 20181650621 Sai Ram 7-CSE-10 Part-B Q.4) · A lexical analyges by same yylend must be provided. · Using lex to produce yylend is a common choice.

It produces tokens consisting a q token have and its associated attribute value. #include <ctype.h> # indude < stdio. h> # define YYSTYPE double 1. token NUMBER 01. left 1+1 -1 1. left (*) //1 1. right UMINUS lines: lines cape In (printf ("10g In 1, 42);} 1 lines / In) 1 tres 1 * empty */ expr: capr + capr {\$\$=\$1+13;} 1 cmps '- 'engr { \$\$=\$1-\$3;} Temps (+ exps { \$\$ - \$1 * \$ 3; } lemps "1" emps { \$ = \$ 1 [\$ 3 ; } lemps ('emps')' { \$ 1 = 12; } 1 '- ' empro 1. prec UMINUS & \$9 = -\$2:4 INUMBER 0/0

		20181CSE0621 Sai Ram	Classmate Date Page	
	yylen () {		-	
7	int c			
9	while (cx=getchoac)= if (cc=='.') Hidigit(c	= (1);		
	s magit (c			
	linget c (c stdin):		
	Joly &	Hylvel),		
	Greturn NUMBER			
	neturn c;			
	9			
-7				
0)	10 (C = 0) (= 1)			
	for (c=o; c, getchar c	2) = 1 ; (++		
	linget c (c. Stolin	\ .		
	Scanf (" fell " dy	(val):		
	Scanf ("Felf", Gyy return NUMBER;			
	return ()			
i]	if (c-getchar() [=')			
	30			
	linget c(e, stdin	"		
	Scand (" of y " of Sterran NUMBER;	iggloal);		
	Ly NUMBER	V V		
	return C;			
	2			
1				
1				

20181CSE0621 Sai Ram 20181CSE0621 Sai Ram. K 7- CSE-10 Part - C Q. 1 Given L->WID - (1) W-> while (e) begins end -(2) D-> do begin(s) end while (c) -(3) C-> VZ=V -(4) V -> id num -(5) S -> AS[E -(6) 1 -> ROLAT=V; Alik - (7) Tokens in the given glamar thing are: L> keywords: while and begins do il num L> Tokens: (9fany) ()), (); L> Tokens: + = , < Conpute first: furi (L) = { while, de} first (w) = Etoy (while) first (D) = {do} first (c) = {id, num} fast (S) = fid, rum, e3 first (A) = { id num; } Compute follow: follow (L) = {\$} follow (w) = { \$ } follow (D) = { \$ } Jollon (c) = {) follow (v) = {<,>,+,;} follow (s) = { end } follow (A) = { id, anum, ;, end }



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