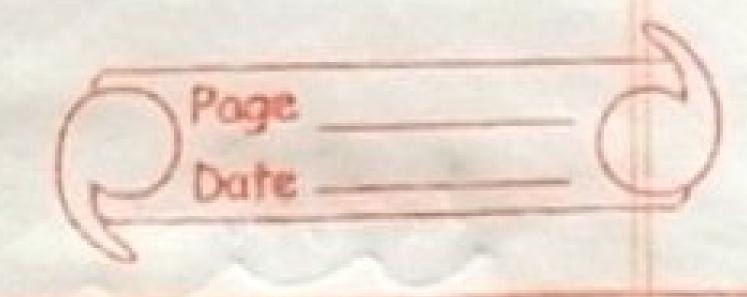
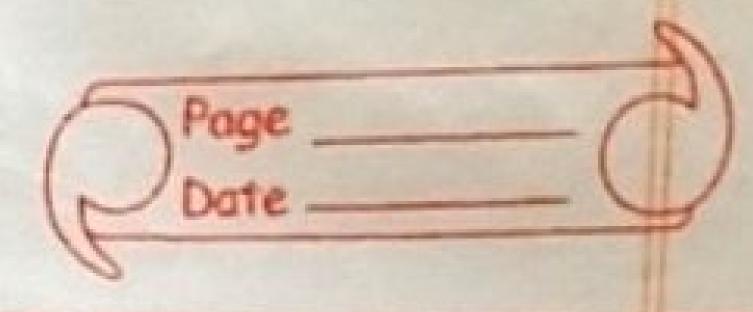


	C Date	#
(2)	a)-Find-the number of totens an-the follows Statement ?s: main()	na C
A STATE	Statement ?c.	
	main()	
	2	
	9nta=10;	
	Charb="abc";	
	9nt c=30;	
	Chard = "xyy";	
	2n /* comment */+ m = 40.5;	
	5) Jobutsfy the lexeral errors in the follows:	ng C
	Statement ?s:	0
	Vord main ()	
	2	
	$\frac{9}{20} \times \frac{10}{20}$	
	Char *a;	
	a = 4x;	
	X = lxabi	
	4	
(a	main $() - 73$	
	$\frac{2}{2n+a=10}$; $->5$	
	Char b = "abc"; $->9$ Pint t c = 30; $->6$	
	Char d= "xyy";->9	
	9n /* Comment */+ m= 40.5 -> 4	
	3	
6	V09d main () ->4	
	7 - 11-11-11-11-11-11-11-11-11-11-11-11-1	
	int $x = 10$, $y = 20$; $\Rightarrow 9$ Char* $a : \rightarrow y$	
	Char* a; ->u	
	$\alpha = 4 \times 3 - 5$	
	3->=	

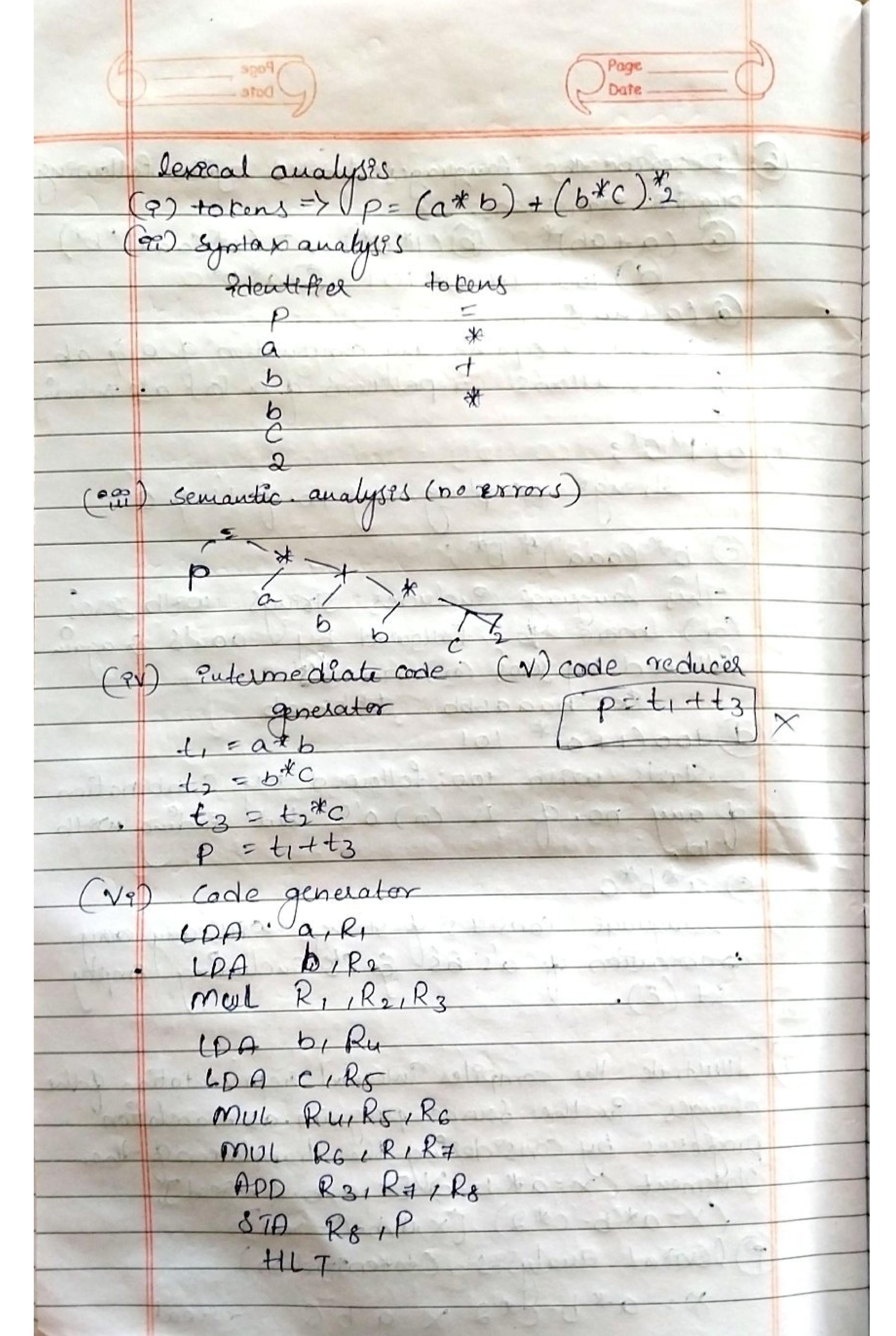


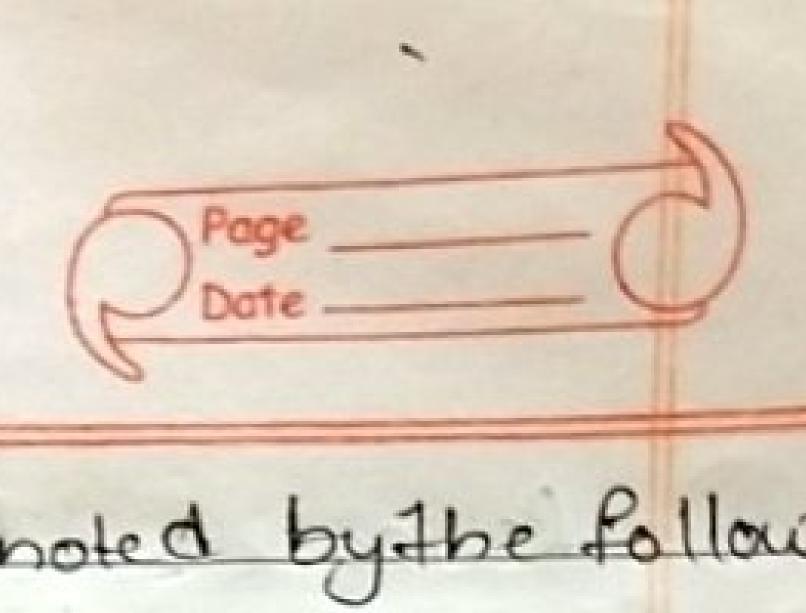


6	10 - Los malam sament
(0)	How would you trace the proglam segment "4* += c b a" for all phases of compiler? "4* += c b a" for all phases of compiler?
	"4* += cba for all phases of compiler.
	Must + - cha"
	LA LOS COLOROS LOBOS DE LOBOS
	-> lexecal analyses & edentify totens
	114* + = cba" -> +.
	construct charace parse tree, Typechecking,
	Emor hardly.
	Esyntax analyzer identifier operator
	b . +
	a
	& segmantec analyses 4
	Q(+=)4 * (c*b);
H. A. H.	- Se quitermedeate code
	generator.
	before this
	operator must avaisable -> code optemizer
	2s présent -> code genérater
	u + = cb9 (semantee ofp)
	to = $(C \times b)$ Intermediate $t_1 = x + 0$ Corde
	$t_1 = +0 + 0$ Corde
	9 at = toti (generater)
	CATTOUT
	b Table 1000
	Fat = totil x { code optimizer}
->	movax[c] {code generator}
	monpx [p]
	mul bx,ax
	mover, (a)
	movax, (a)
	Add dxicx
	Mov (a), dx

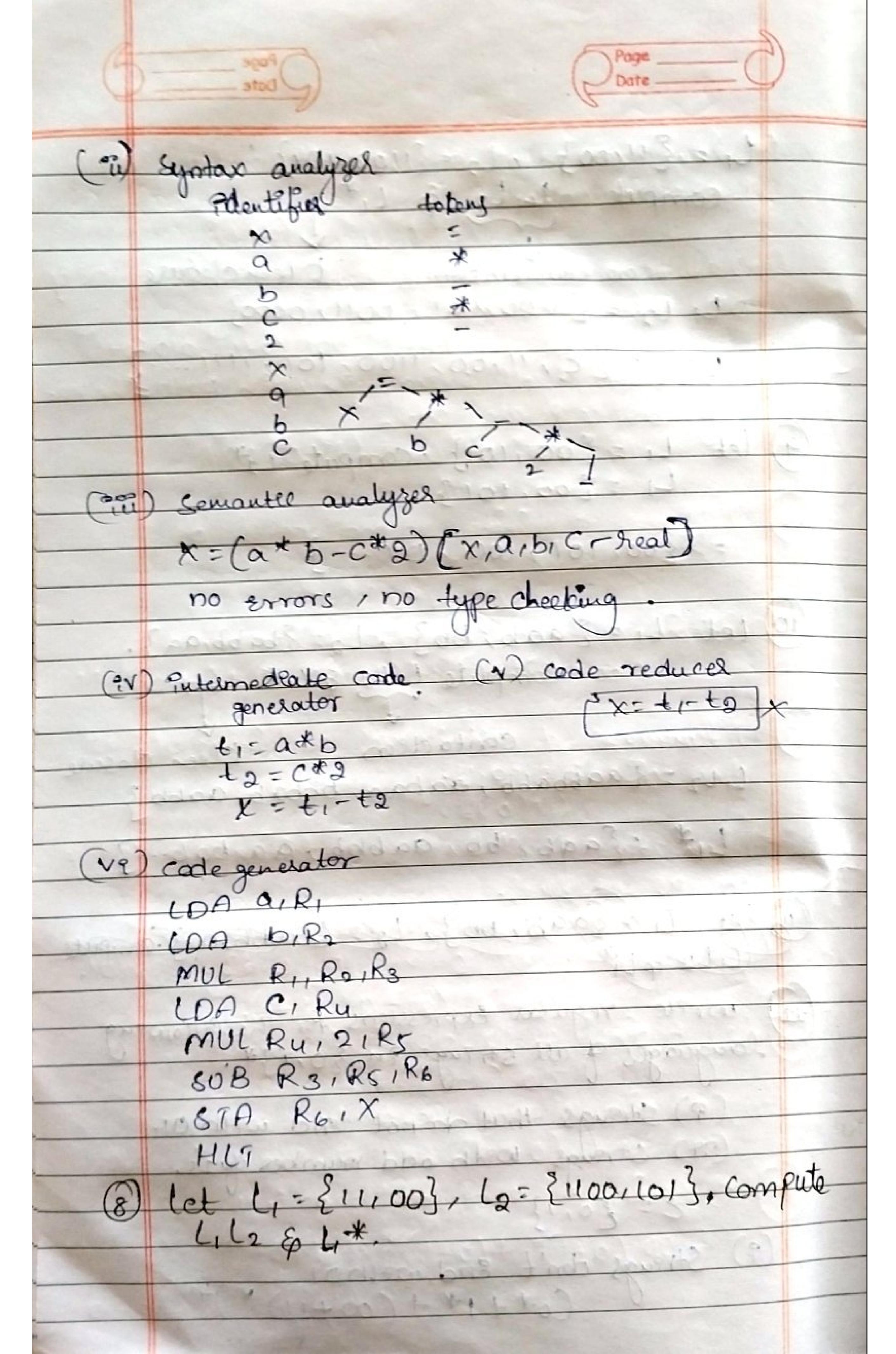


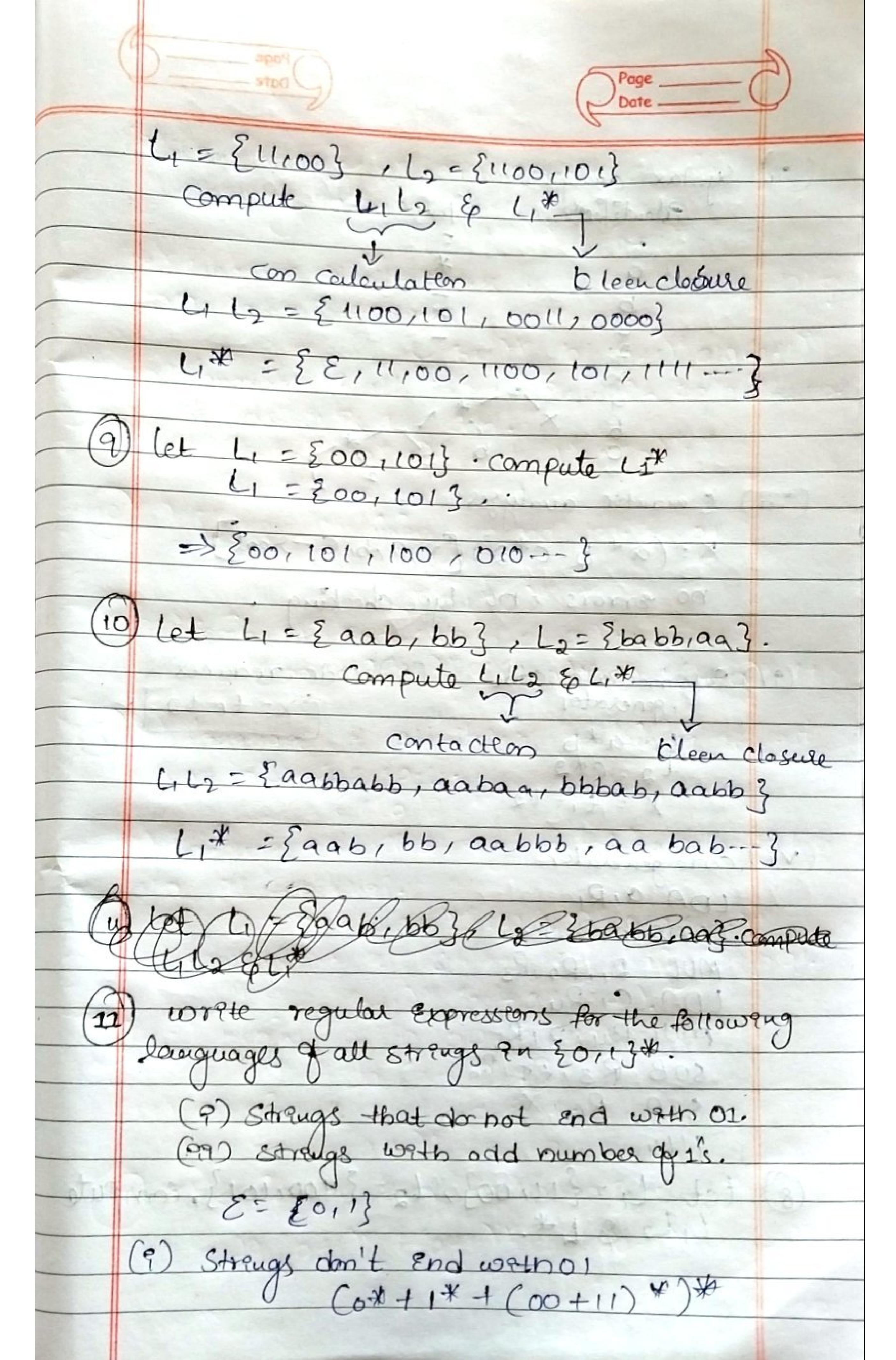
	Date
(1)	
(4)	Explassion a: = b+1 c* 0.
The same	Explaisseon a: = b-1 c* so. Cach phases for the
	a:=b+c*so
	10,000
	-> levecal analyses
	Le Surdan au 1 100
	Systax analysis Pedentifies to bout
	2 dente Pios
	to benj
	· · · · · · · · · · · · · · · · · · ·
	C
	50
	a = Semantle analyses
	6 of Ctype checking, error bandling)
	$c + a = b + c \times 50$
Just 10	
	24de 8 12 - 249e 1 2
	Putermedrate code generator
	to = C*50
	+1 = b+to
	$a = t_0 + 1$
A. Liste	- S. asto a toti e orde reducer
158	- LDA b, R. 2 code generator?
	LDA C, Rg
	mul Ra, so, Ra
	ADD Ri, RaiRa
	81A R3, a
	HLT
(2)	
0	Sunstrate the output of Each phase of compila- tion of the input "p= (a*b) + (b*c) 1*2".
	teon of the input "p= (a*b) + (b*c) 12".
	E(a*b)+(b*c)*2

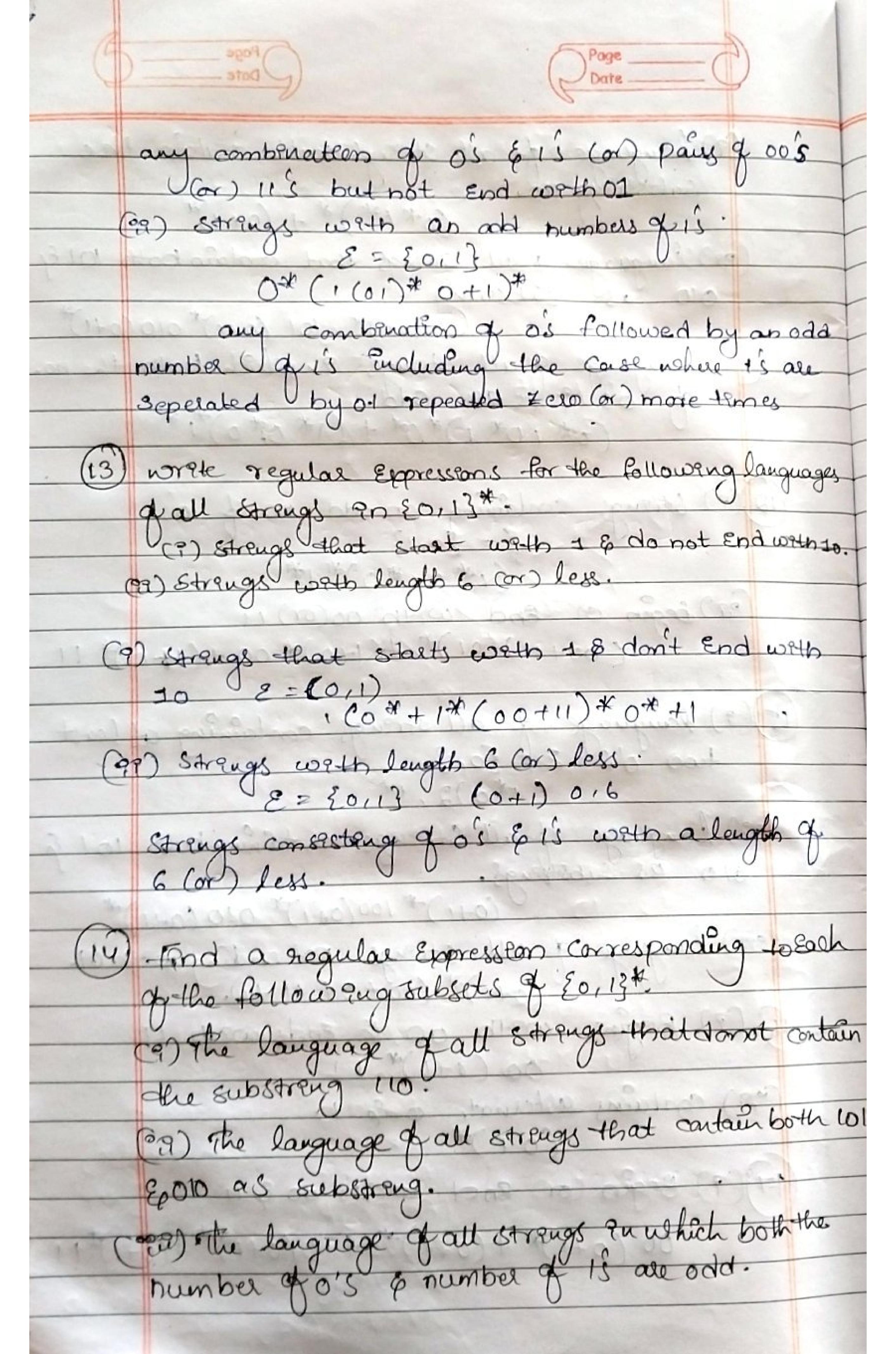


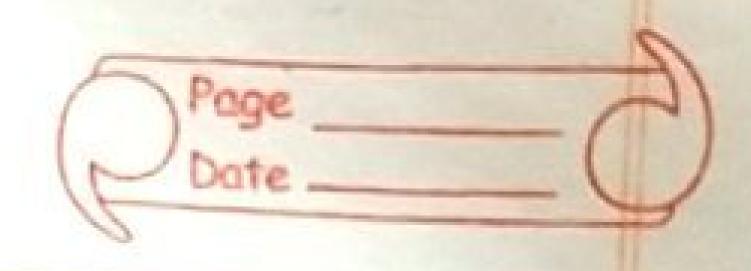


	Date	
6	Describe the lauguages denoted by the fol expressions: (a+ab)* (b)(1*0*) (b*(aaa) (a+ab)* 101 (a*b*c	lowsenge
	regular Expressions.	
	(a) (a+ab)* (b) (1*0*) (b*Caaa)	* 6*
	(d) 100 (1+0)*101 (Da*b*C	
	Cataby.	
	Estrangs accepting any combination of a secondations of a long allows representations of a long ab	pab.
	E reporters que on an	Freluding
-	B) 1 × 0 × 3	
	Strengs accepting any no. of is & os	
	(aaa) * b*;	
	This language Rududes storings with z	esas
	Cor) more b's followed by aga's &	again-
	Es baaabbb bbbaaab	
	D100(1+0)* 101	
	Starts with 100 followed by combine	tion-
	of any no. of is con o's but Ending .	08-th
	(a) x b x c	
		•
	Combination of a's 65 Ep Cle anduding Em	Ay
	set (E).	They -
(7)	Illustrate the compiler internal representation	& the
(hanges in the source program, as translation	n
P	statement cx = at b-cy [x,a,b,c-real]	2
Č	(x=a*b-c*2) [x,a,b,c-real]	
1	Derpeal analysis (tokenization)	
	x = a x b - co 2 x a b C - real	
	ab C Freat	





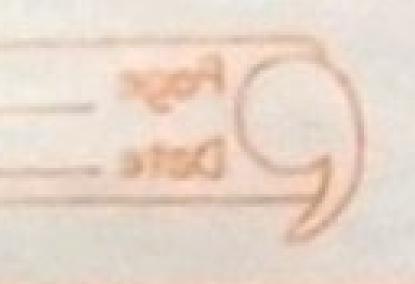


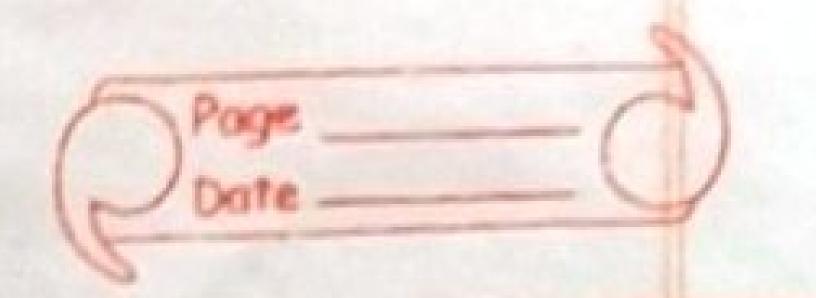


(2) language of all strongs soult contain the (0*1*) * + (0+1)* 09) language of all strengs that contain both 101 Ey (CO+1) * 101 (0+1) * 010 (0+1) * (ora) language of all strengs quickich both the no.

o's & is are odd.

(ork 10* 1)* ork + (1* 0;* 0)*, * (2) Strangs containing an odd no. of o's (1*0)*1×1 (32) begin or and worth 00 (or) 11 (00+11)(01)* +(1+0)* 00 +(1+0)* 11 ?) language of all strengs containing at least language of all strange containing both 101 & 010 as substrengs. (0+1) * 100 (0+1) * 010 (0+1) * en language of all strengs not ending worth 01. (0+1) * (00+0+11+1). Begins with 00 & Ends with 1 (9) contains alternate o (01) 30 m Begin (on) end with on & 11 00 (0+1)* + (0+1)* + (0+1)* + (0+1)* 1





(09) language of all strongs contains 11 & 010 as

Bubstrongs.

(0+1)* 11 (0+1)* 010 (0+1)*

(18) (9) language of all strengs that begin (ax)

End with 11 (00)00

11 (0+1)* + (0+1)* + 00 (0+1)*+(0+1)*00

(9) begin with 1 & End with 0.

etrang accepting the combination of any no. of (9) (9) (6+1)*

Strong accepting the combination of any no. of

(977) (0 x1)

Strang accepting o (or) 1

(3v) (0+1)+

Streng accepting 0(or) 1

willbout an emptyset.

(20) 5nt x = 5, y=10, 2; 7 = x + y * 5; prout - P ("0/00", 7); (?) lexecat analyset adadifying tokens

