## Spec Assignment 1

	the second name of the last of	_				
QI E > E	E E E	巨米丘	E/E	ETE	(1)	id.

				and the same of th			Name and Address of the Owner, where the Owner, which the Owner, where the Owner, which the	STREET, SQUARE, SQUARE		-1
1	id.	)+ 1	1/40-1	*	1	7		) 4	4	-
	丰	4.5)	>	1	A	>	EL	>	0	1
+		151				4		0		1
- 1	Todo	10)	3	200	121	4	K.	>	D	ļ
	12.					4	2.	> 1	>	L
1	14	1 31	15/1	1	. >	4	4.1	>	>	
1	-Ka									
	6									
)	4 FI	15	>/	1	2.5	->	E	(5)	>	
\$	<.	10	<	4	K.	40	4.	Ea	Accept	
							100			

E, := Missing Sperator Coupti E2 := Missing Right Paranthrais

E3 := Missing Sperator Couptieses.

Algorithm:

Let a = stack symbol;

de = I/P symbol;

repeat of

If (IP scamed completely and stack contains start var only) f.
ACCEPT();

else if (a<-b | | a = b) of.

else if (asb) of.

roduco;

ERROR ();

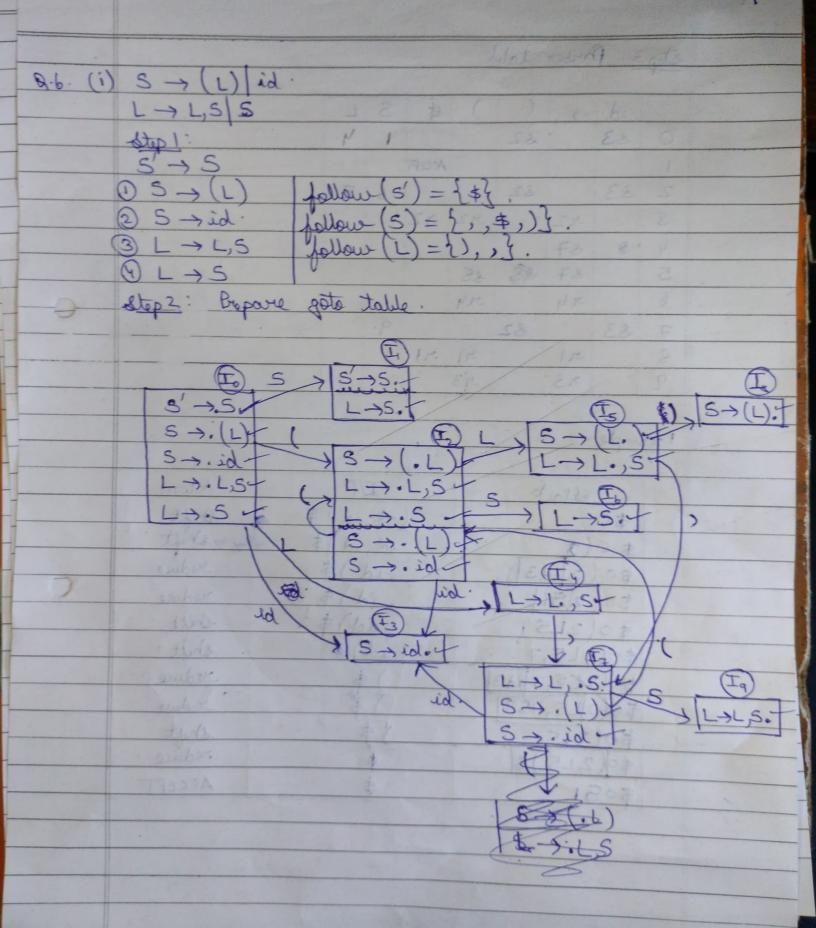
Example :

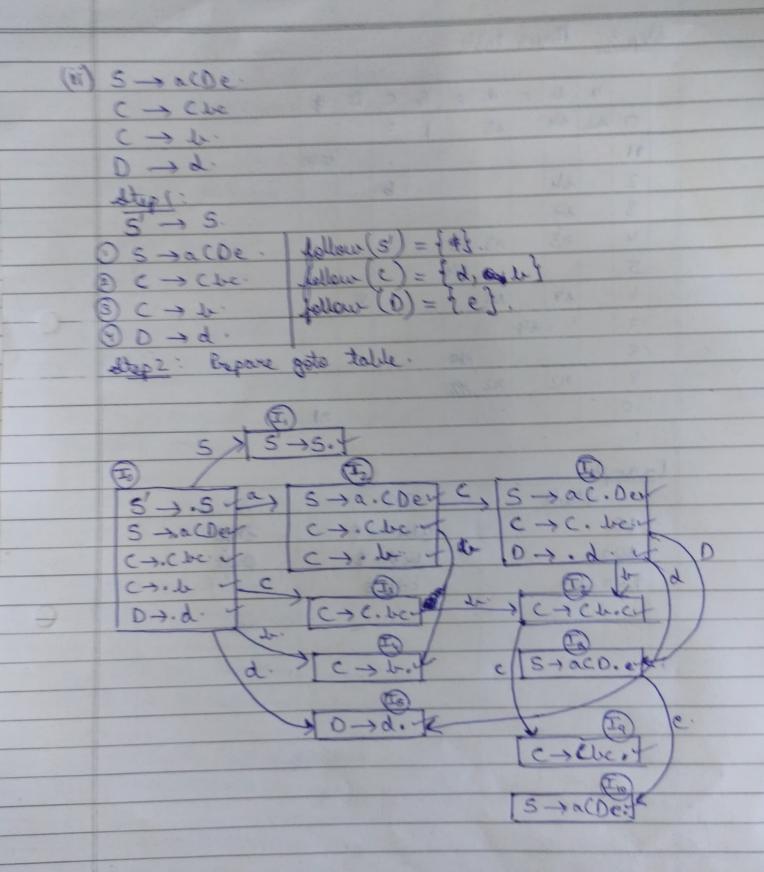
Н						
	Stack	I/P.	a	مل	Action.	
	\$	\$(bi-bi) *(bi-bi)	\$	1	shift.	
1	\$( )	id + id) * (id-id) \$	(	id	- shift	
-	\$ (id >	+ id)*(id-id)\$	sid	+		
	\$ (E	+ id )* (id-id) \$	(	+	shift.	
	\$ (E+ ) 3	id )* (id-id) \$.	+	id	shift	
	d(Etid >	) * (id-id) \$.	bi	)		
	# (EFE	7 * (id-id) \$	+	)		
	\$ (E)	\$ (id-id)\$	(	)	Shift	
	\$(E)	* (id-id) \$	)	*	Reduce.	
	\$ E	* (id-id) \$	\$	*	Shift.	
	\$E* intracel	(id-id)\$	*	\$(	shift.	
۱	\$E*(	id-id)\$	(	id	enift.	
ļ	SE* (id	- id) \$	id	-	Reduce.	
	¢E* (E	= id)\$		-	shift.	
l	\$E* (E-		1-1	id.	shift	
ļ	\$E*(E-id	)\$	rid	)	Reduce.	
	\$E* (E-E	)\$	-	)	Reduce.	
	SE*(E	) 4.	1	)	-Shift	
	\$E* (E)	\$	)	4	Reduce.	
-	FEX E	\$	*	\$	Reduce.	
N.C.	E	\$.	\$	\$	ACCEPT();	
					12	

- Chaples

SECOND SECOND							
00					dan.	- 2 (8p)	
8.5		[a]	1	d	\$	9	
	A -> AD	3	2	1.3	01	- )	
	B -> 1- 16	1 0			27.00	3	
	0-> 2/6	1			2/01	9 1 1	
	Consider,		u le	147	- 0		
	first(s) = \$ fa, de, of	1: 10	llow (>	102	-3		
	must (A) = { l, d, e}		u (A)	= [22]	= 3	12.4	
	first (6) = {b, e}.	4 11	w (B):	= 200,00	] = 3	UZKIA.	
-	first (0) = {d, et.				= 3	Jarun .	
1	Nous garacides	(1) - 40	del		1= (7)	Tarible	
	potlove (S) =	( P) 20 M		1134	1= (=)	Todal	
	The state of the s	(7)	uled)	10,80	= (0)	tary	
9.3	S -> Aa			1,1			
	$A \rightarrow BD$					4	2
	B -> 2-/E			3	44	6	
	D -> dle			And del	9-14-16	-2 4	8
	, fa, b, dy.				1 2	- A	
	first (s) = # Eg #	follow	-(s) = 0	4\$3	26	- 8	
	first (A) = 16, d, E}.	Marie		(a)	=(2)	terril 18	
0	first (B) = { b, e} .	Kolley	v (B) =	2a,d}	= (A)	La Contraction	
	first (D) = { d, E}.	Jullar	v(0)=	fas			
	Merces (2)	, 0				Corne	
(1)	DP -> ocaRS:		N. A.				
	9-> 42/2	7	1. 21				
	R > W/E.	343	BLACE	ANA	48	2	
	$S \rightarrow X$	000	17 60		3/8	A	
	Ainst (P) = 124 1	follow	. \	1	0	8	
	Airst (9) = { 8, 2}.		W = {u	1 × 2	THE REAL PROPERTY.		
	Sinet (R) = fu, e}			3		13	
	first (5) = 185.	follow (					
	Low (2) = (87.	Janons (	3) = (4	1		27.3	
		-	-				

```
9-5- (1) S -> FR.
       F-> id.
       first (5) = Fill
                            hallow (3) = 45
       first (R) = faid, Eg.
                           follow (R) = f 5 g
       first (F) = fidy.
                            fellow (F) = fid $ }
       Parser table:
        s s + FR ERROR()
R R + S R + E
        F F-yid ERROR()
       Algorithm:
       Let x = tes (start variable) :
        a = I/P.
       repeat of.
            ACCEPT();
         else if (x = a + $)-{
            Remare a from I/P;
        else if [M[x,a] = x -> x x x ... x
           Euch You Y into I/P
        eleo
        ERROR();
```





8.3.	
1.	Exceeding length of identifier or murroric constants
$\rightarrow$	Lexical analyses.
	The state of the s
2.	Not matching actual organizate units a formal one.  demantic analysis
7	acmentic analysis
3.	Missing garater
-	Missing garater Syntax analyses
4.	Misepelled Agypuorde.
	Syntax analyses
5.	Tre appearence of illegal characters.
$\rightarrow$	Lexical analyses
6.	Eard of comment is present but beginning is not present
7	rexical analyses.
7.	Errors in structure
->	Syntax analyses
	Unbalanud paranthesis.
$\rightarrow$	Sentax analyses.
9.	Incompatible type of operands.
	Semantic analysis
10.	Underlaved variables.
->	Semantic analyses