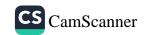
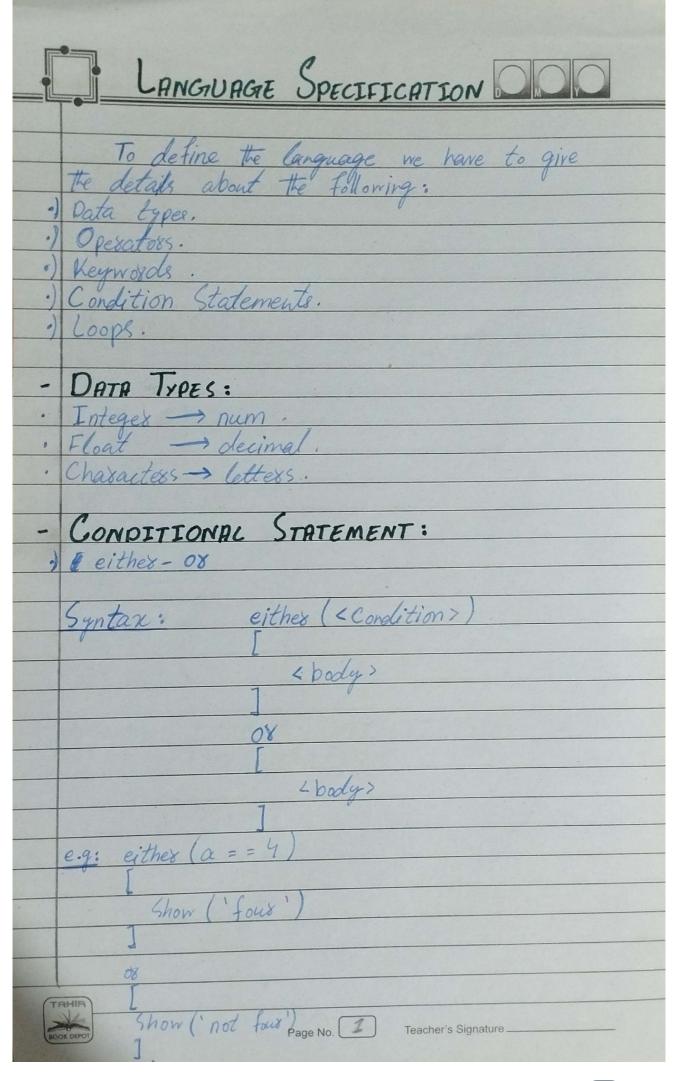
RULES FOR NAMING A VARIABLE:
A vasiable name is a word that consited of following, 1) English letters A-Z and a-Z. 2) A dollar Sign (\$) 3) No other character is permitted. 4) Space not permitted. 5) Variable must not start with a digit or under score over a that the first only a character is
necessary after that. 6) Double underscore are not permitted. e.g: 1a X Smy X Num V
- Loops: 1) for Syntex: for (<initilize>, <conditional (tatement="">, <inexement))< td=""></inexement))<></conditional></initilize>
(Body) for (num val = 0, val (10, val+) Show (val)
- Operators: .) Asithmetics $(+, -, +, 1)$. .) Increment $(++)$, Decrement $()$. .) Comparison $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,>)$ $(<,\sim)$



·) Ausigmen	t (=)	
- INPUT	AND OUTPUT	- :-
· Output:	take (). Show ().	
- KEYWOI	Token	Class Past
nam	(
lettes)	
either	=	=
08	+	+
708	-	-
defult	÷	4
setusn	X	*
Cable	1 3	2
define	1 1 - 1	>, <, >=, <=, ==, =
take	!=	71-12-1-1
Show		
Lancero	VARIABLE INI	TTITTON 4
Simologi	DECLEARATIO	
	Decle HKH112	
< Data	type > < vasiable	e name> Lassignment operation
< val	ue >.	e name > Lassignment operate)
e.g:		
num	value 1 = 30	
letter	abc	
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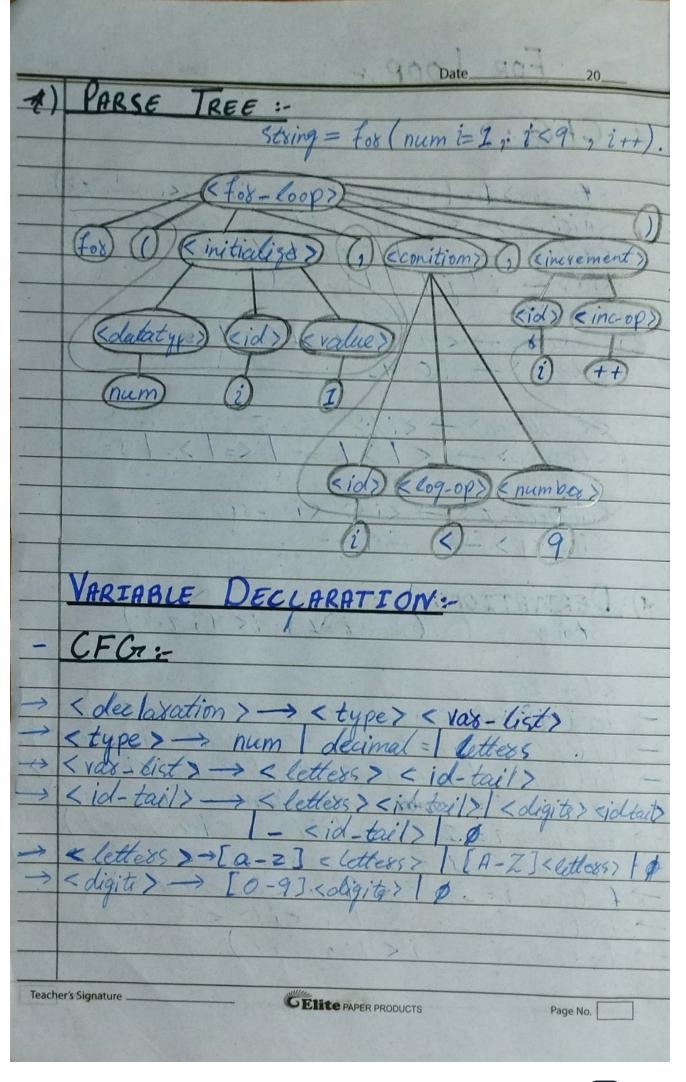


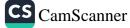
FOR LOOP : A CFG: < For-Loop> for (< initialize > , < condition) , < increment >) <initialize> - < datatype> < id> = < value>.

< datatype> -> num | lettes | decimal

< id> -> i | j | k | [a-z] < ralue > -> < number> < number > -> < digita >+ [0-9] « digits > → [0-9] < Condition> → <id> < log-op> < number> < log-op> → < |> | == | <= |>= |!= < increment > -> <id>> (inc-op>. <inc-op> -> ++ 1 -1) DERIVATION: String = for (num i = I ; i < 9; i++) < for-loop> -> for («initialize» , « condition > , « increment > > for (Educatype> <id> = < value >, < conditional) , < increment) for (num <id>= < value>, < conditional) ; < increment> for (num i = < number> , < condition > , < inexement > for (num i = 1 , < condition > , < inexement > for (num i = 1), <id>< (og-op> < number), <increment for (num i = 1; i < 9; < increment >)

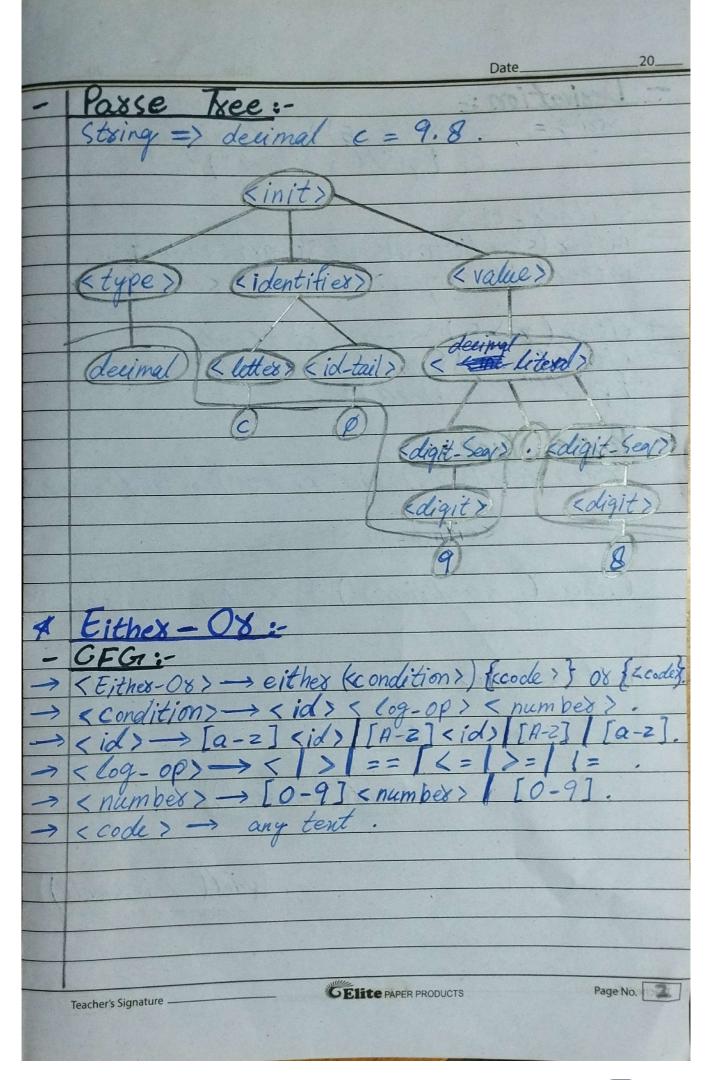
for (num i = 1; i < 9; < id> < inc-op> Fox (num i=1, i < 9 GELITE PAPER PRODUCTS Teacher's Signature -





	Date
	DERIVATION:- Ded Deriv String => "num x".
	bed terry rong - man
	< declaration>
7	< type > < vax-list>
<u> </u>	- line = 1 How a side tail >
7	4
×	num x
,	mam x.
_	Paxse Tree :-
	String => num x
<	
	Edeclaration &
	(Etypes) (Vax-list)
*	1
	(num) (cietters) (kid-taits)
19	
	(2)
	Teacher's Signature Page No. Page No

VARIABLE INTTALIZATIONS ate
- CFG:-
-> (init) -> etus > el los
→ <init> → < type > < identifies > = < value > .</init>
-> <type> -> num decimal letters 1.6</type>
-> < identifies> -> < lettes> < id-tail>
> <id-tail> -> <letters> <id-tail> edigite> <id-tail></id-tail></id-tail></letters></id-tail>
> (values > 1: 1 1: 1 1 1 1 1 1 1 1 1
-> < values> -> < int-literal> (decimal-literal)
< chax-literal>
- Lind 1:1 1 > > F 7 . 1: 11: 6
→ < int-literal> → [-] < digit-Seqy>.
-> <decimal-literal> -> [-] < digit-Say> . <digit-sey></digit-sey></decimal-literal>
> < char-literal> > < chars
-> Colinit Cons so a love to but to all to
→ <digit-seq> → <digit> <digit> Seq> <digit> <digit> <digit> → < digit > → [0-9] <digit> Ø</digit></digit></digit></digit></digit></digit></digit-seq>
$\Rightarrow (14) \Rightarrow [0-9] < digit > [0]$
→ < letter> → [a-z] < letter> [A-Z] < letter> [Ø] → (Chas) → [a-z] [D-z]
- (1887 -) [a-2] [H-2]
- Desivation:
input => decimal e = 9.8.
-> <iwit></iwit>
- Characterist Life to
> 1 (gye > (dentities > = < value >
decimal < identities > = < value >
-> decimal c = < value>
= decimal c = < decimal-literal?
=> decimal = = < digit - Sear > . < digit . Sear >
-> decimal c = < digit > . < digit >
\rightarrow degmal $c = 9.8$
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		Dat	e	20
-	Desivation:	-: 99	N S	- 15850
	String => either (x	>5) { print ("	xis las	sge" }
	08 { 08 in	t (" x is small	")4.	1
\rightarrow	<either-08></either-08>			
<u></u>	either (< condition >) {	code 29 08 {	< code	>3.
-	either (< condition >) { either (<id> < log-op:</id>	> < number>) j	coole	33 08
				1 < code > 4
-	either (x > 5) { < coo	Lets ox ox	oole >5	
-	8 000 1 (11 2 15) & P8/10	tex is large	="25	08
	Epsint ("x is small	71.		
-	Paxse Txee :-			
	String=> either (x >9) {	ai dluvia lasca	w) } {	n: 1/4 : 48
1	4	om (k is varge	11 28 (181 MI (MHS Sugle 1).
	Keithes-	283		
	(either) (Rondition	D)(1) (ca	de 7) 3)	(0x 3 Ecode) }
		-: N	05	KAN THE
	1	T		- 65:61:
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	100	1111	- 30,000	The state of the s
- 1 5	(2) (3)	Marin Jan	7-1-	- () -
		it in in Non	11111111111	
	1	sintl" x is large	1)	333
		Cov	intl" n	ie (1000 //h)
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