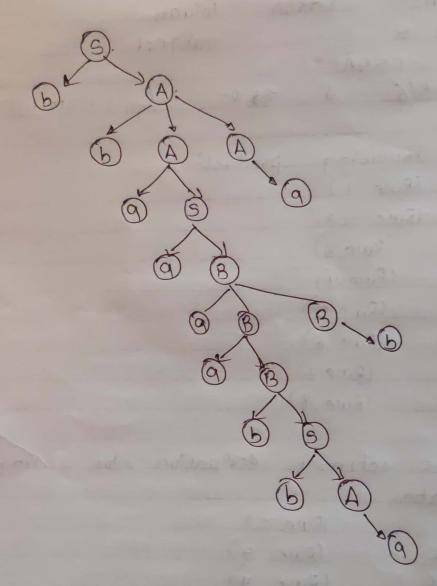
	Page No.
	Name: Kalani karan Giyan. Semester: 5 subject: TCS. Seat No: CS5A021
A).	Pg No: 1/6. of \$8.92. Sign: K. Gkaland
A).	S>bA (Rule 2)
,	$A \Rightarrow a \qquad (Rule 3)$ $A \Rightarrow a5 \qquad (Rule 4)$ $A \Rightarrow bAA \qquad (Rule 5)$ $B \Rightarrow b \qquad (Rule 6)$
	$B \rightarrow b$ (Rule 6) $B \rightarrow bs$ (Rule 7) $B \rightarrow aBB$ (Rule 8).
•	lets generate reftmost dexquation by string 'bbaaabbaba' G-> bA Rule 2)
	S > bb AA (Ruie 5) S > bbasA (Ruie 4) S > bbagBA (Ruie 1)
	5) bhaga BBA (Rule 8) 5) bhaga bbBA (Rule 7) 5) bhaga bbABA (Rule 2)
	S-> bbaaabbaBA. (Rule 3) S-> bbaaabbabA. (Rule 6) S-> bbaaabbaba. (Rule 3).

Teacher's Sign.: _

pg No: - 2/6. of Q2.

sign = K.G. Kalant



	Page No. Date
	pg No: 3/6. of Q2. 59m: K. G. Kalaus
Δ	Lets generate rightmost derivation for string. black bhaba.
3)	S>bA. (Rule 2) S>bbAA. (Rule 5) S>bbAa. (Rule 3) S>bbasa (Rule 1) S>bbasaBa (Rule 1) S>bbasaBa (Rule 8) S>bbasaBba (Rule 6) S>bbasaBba (Rule 7) S>bbasaBba (Rule 3). The language becomes
	1= {abb, aabbb, aaabbbb, aaaabbbb,}
	lagic'— ") Each 'a' is seplaced by 'x' and head movement towasds Right till 'b' Right till 'b' Repeat above two steps till 'a's and b's are over over

Teacher's Sign.: _

	Page No. Date
	P9 No = 134/6 of 92 sign - 10.6.101012
8).	Implementationt Let M= [Q, E, r, b, q, B, F) Where
	$Q = [q_0, q_1, q_2, q_3, q_4, q_5]$ $\Sigma = [q_0, b_1, q_2, q_3, q_4, q_5]$ $\Gamma = [q_0, b_1, x_1, y_1, b_2]$
	9 = 90 B = Blank Symbo) F = [95]
	q = Replace 'a' by 'x' and head moves townsds sight. q = Seasch For 'b' and Replace & by 'y' and head
	moves howards left Bypass all 'a's and 'y's q2: Bypass all 'a's and 'y's search for 'x' and replace it by 'x' only and head moves towards orant whenever get 'a' at qo state repeat
•	this type for all 'a' and 'b's. 2 -00 & state if we get 'y' replace it by 'y' only and head moves towards right now imove
	the head right to secret for last b' Bypass all 'y's as state if wet get 'y' replace it by 'y' only and head moves howards right. Now move
	the head eight to search how tast 'b'. Bypass all 'y's. q'; After all 'y's if we get 'b' this inclinates one extea 'b' than 'a' is found.
	one extea b' than 'a' is found. Teacher's Sign.:

				Page No.	
	pg No+ \$16 of 02. sign + t. G. palows				
3).	95 - After the last	no more	me det	blank e semaining,	
	Transition diagram:				
	919,R 919,R 919,R 919,R 919,R 919,R 918,S.				
	Transition table:	X	~	B	
	9 (Q, Q, R) (Q, Y	D -	(a, y, R)	-	
	9 ₃ (9 ₄)	8,R) (q, x,R)	(93 YR)	(95 R,5)	
	2,*				
	Teacher's Sign.:				

Page No.			
Date		1	

04	NO	516.	01- 92	San	-	r.G. ralano
1						

Instantaneous description!

1-0 90abbB	HO XQOYBB
H XalbbB	+ XYQ3bB
1- X92YbB	1- XY B q 4B
P 92X YbB.	Le XYB a 5 (Accept)