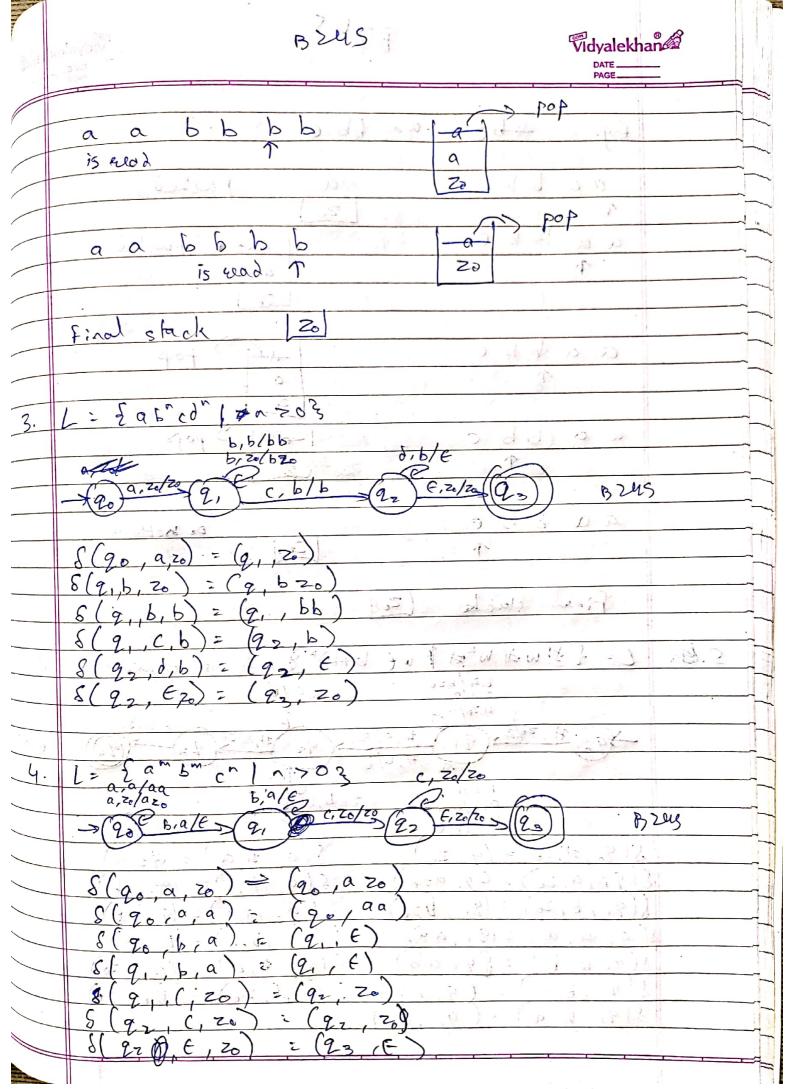
	Sample Shah		1.0
1	Sample Shah B. Te Lh	J.M. J.	Vidyalekhan
	B245.	TCS	DATEPAGE
		Tutorial 10	
	Generate and ver	cify PDA for following	ng -1 's'
1.		5	
	20/020	10/0	
	(C) 1 0/6	( ) E 170/200	1:
	90 670	δ b, α/ε >(21) ε, . z e/z e (22)	Brus
	0,a/aa		
		( .s.n. : 11 - 1	2.50.02.2
	Let wa= aabb	ا الم همور) د (عم ممم)	90 1 18 18
	Then as per PDA,	(3.8):	( D 1 ) 0 13 1
	ааыы	a la puch	(20)
, .	isalad	Zo ;	35 3. 1828
	a a b b	a a push	(20)
	is Lead	76	Sapop
n en	14		(2,)
	aabb	A TOTAL CONTRACTOR OF THE PARTY	a Pari
	75 Telead		70
	a a b b	D = 3 4 2	) a pop (q1)
	d a b p	en. d	a
	13	war -	20
	per l		
	Finally stack=)	20 92	
		- 4 2 0	1 12 10
	: transition (	unctions	1. 2000 61
	V		
	0 (20, 100)	= (20, Baz)	
	§ (90, a,a)	= (q0, aa)	
	& (90, b, (0a)	-(91, 5)	
	δ(q, b, a) δ(q, ε, z,	$\frac{1}{2}(2, + \epsilon)$	10 = 11
	8 (q, €, Z°	1 - (4,1-)	SALL ST

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-	race_
	Eg. abc an bbc
	a a b h c a pushed
	20)
,	a a b b c
	( a 1 d 2
	20 .
	aabbc 1-41 Pop
	2
·	
	20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	00 100
	To tacking
	final stack (Zo)
S.160.	C= { \$ w \$ w \$ \$ f w f (a+b) \$ \$ \$ \$ is terminal symbol.
	b, 20/ b20 0 0/6
	a, z <sub>0</sub> /a z <sub>0</sub>
·	90 77000
	6,6/6b
	a,b/ab b,b/E
2	000
	$S(q_0, \#, \ge_6) = (q_1, z_0)$ $S(q_1, \#, \alpha) = (q_2, \alpha)$
	S(9,1#h)= (9 1)
	(6)
	$\delta(q, a, a) = (q, aa)$ $\delta(q_2, b, b) = (q_2, b)$ $\delta(q_1, a, b) = (q_1, ab)$ $\delta(q_2, b, b) = (q_2, b)$
	(12) 11(60) - 10 - 20)
	(10) (10) ((3,1,20) : (24, 26)
	0(4, 6, a) - (2, ba)

	324 S Vidyalekhan	
6.	$L = \{ ww^2 \mid w \in (a+b)^{\frac{1}{2}} \}$ $\frac{b,b/bb}{a,a/a}$ $\frac{1,b/e}{a}$	
	6,20/020 a,20/020 Bus 8248	181
	a, b/ab b, a/b, a	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	$S(q_0, a, z_0) = (q_0, az_0)$ $S(q_0, a, a) = (q_0, aa)$	
	$\delta(q_0, a, b) \approx (q_0, a, b)$ $\delta(q_0, b, 20) = (q_0, b, b)$ $\delta(q_0, b, b) = \delta(q_0, b, b)$ $\delta(q_0, b, b) = \delta(q_0, b, b)$	
	$S(q_0, b, 0b) = Cq_1(E)$ $S(q_0, a, a) = Cq_1(E)$	
	$S(q_1, 6, b) = (q_1, \epsilon)$ $S(q_1, \epsilon, z_0) = (q_2, z_0)$	
7.	Odd length palindrome over to. 23	
	0,0/00 0,0/00 0,0/00 0,0/00 0,0/00 0,0/00 0,0/00 0,0/00	
	0,1/01 1,1/1	
	1,0/10	

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	30/4		
·	8 60,0,20	) = (90,020)	" w ex } . \   \ \
	\$ (90,0,0	S = (20,00)	61/1.
,	8 (20,0,1	(20,01)	
	S ( 20 , 1, Zo		3 877 1047 10
	8 (20, 1. 1	) 2 (20, 11)	1. d. J. o. g.
	8 (20,1,0	7 = (20,10)	10, 10
	8(20,0,0)	- (2,0)	HALL O
	8 (20,0,1)	2 (21, 1)	· VAIQIA J
	5(20,0,0)	(2,0)	
J	8(20,0,1)	2 (2,110) = 5 (2)	(05,00)
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	1 - ( )	2 6 (Q1) )* ( 1 C ) > 12 b	Colored and a state of the stat
. 8.	L= 2 w (c	we (ath) * ra(w) 7 Nb	(w) 5
	a, a / a a 1, zo / b zo a, zo / azo	E, a/C	(190 - 191)
,		16 (21) E, 20/20 (22)	10 14 P 14
	3	3 (2)	BEUSO
	6,6/bh a,6/e	(1,1)	(46,0)6
<u></u>	b, a 16	Carried Control	(2 3 (2)
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	S(90, a, 20)	) = <del>(020)</del> (90,020)	The Market of the state of the
,	s (90 a, 9	) = (20,00)	
,	& (90,b,2e	2 (20,620)	
,	8 (20, b,b		00/2.0
,	f ( 90, a, 6	) = (20,E)	6 39 650
-	8(20, b, a	) = (20, E)	2012
	$s(ao, \epsilon, a)$	= (2,16)	
	5 (2, E, a		1/11 2/12
	$\{1, 1, 1, 1, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,$	20) 2 (22, 6)	31,0,1
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	b, a/ba d, ak		
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	90 C, b/E > (2, Zo/Zo) (22) BZ	45	
	ab/ab cible	r	
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	4 (2)		
	$S(q_0, c, b) = (q_1 t)$		
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	5(2,00)		
	S(21, +1, 20) = (22, 20)	4	
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