NAME: ABHAY DIXIT R.NO: 00416401522 . DATE 30 4 24 TOPIC TO C BIECH SEM 47h ASSignment-2 (TOG) Twing mochine for L = & an er ur haur 17,1 as smallest accepted string -> ab Empty etring should not be Steps Read 'a' & neplace it with A'

now 90 the end of string

Read b 4 replace it with B

now to the start of string 4 repeat. 0 00 b 5 Turing Machin 井井上 812

00416401522 30/4/224 Alchay Crit 02 Twing machine for  $f(n)=1+2+\cdots$ suffers we mant to computy of (4) J(4): 1+2 +3+4=10 DO 1111 + 111 to no how to copy str on tap and Turing machine to lapy string 1014147 XIF

..... DATE..... TOPIC ..... Abray Rout 004 16401 522 #101L 1,24

Transition June (8). Of PDA (00416401522)(4) TI S(909,20) = (4010 100) 30/4/24 -JPDA TOCFG T2 S(q, 10, a) = (q0, aaa) 73 5 (10 16, a) = (0, ^) S(q, b, a) = (q, ^) 95.8 (4, 1,20) = (92,11) -) for ti l'increasing langua use e-3
[[lo zot]-) a f [la a q ] [q a h] [ 130 + ] ] mis up valent to 1/1/2 Squigures 1/92} for 72 (increasing lengter) use Rule -3. [qa a +] -> a [qo aq] [qa h] [ha+] ~ 9, N, 1 E Stai91/923 1) Equivalent is (27) products -) for 73 ( Decreasing length) use full 2 [[90 a.8,] - b] (1) Prometion

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	TOPIC DATE
	ABHAY DIXIT (00416401522) 30/4/24
	for Ty ( Pecreasing longton ) tist full 2
	[[9, 9, 1]]
	Obodución
	forts (becreasing length) us full 2
	[q, 20 q,] -)
	(1) Production
	S-transition, use ful-1  [S-) [q. 2090]
	S -> [ 9 0 Z 0 9, ]
	3 Production
	3) Production There will be a total of 60 Production
	equivalent CF 4