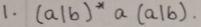
CS19641 - COMPILER DESIGN

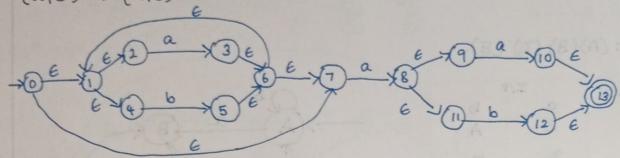
Assignment - II

NAME : SOWMIYAS

REG. No: 210701255

DEPT : III / CSE - D



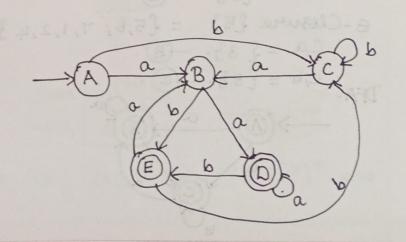


E-Closure
$$\{3,8,10\}$$
 = $\{3,6,7,1,2,4,8,9,11,10,13\}$.

$$D, a = \{3, 8, 103 \cdot - 0\}$$

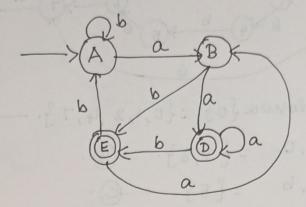
DFA:

01.10	I/P	
States	a	6
->A	B	C
B	D	E
C	B	C
*D	D	E
*E	B	C



P2 = (A)(B) (D) (E).

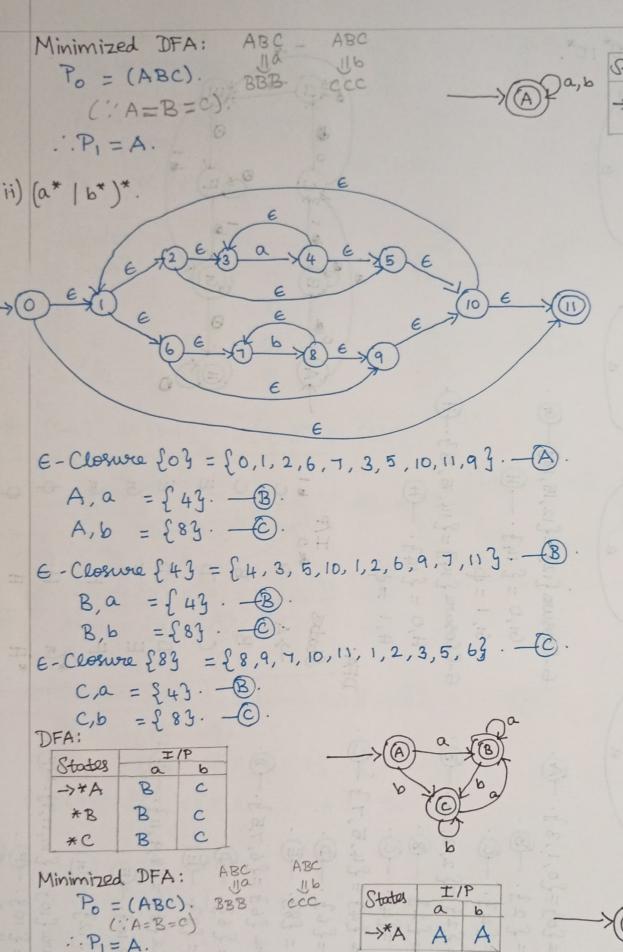
01-100	I	19
States	a	6
→A	B	A
B	D	E
* D	D	E
* E	B	A



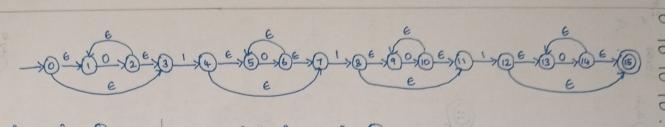
DFA

-	→ <u>@</u> -	a	(B)	10-
4	6		(b)	

States	I	/P
	a	b
→*A	B	C
*8	B	C
*C	B	C



.. The DFA of the two RE (alb)* and (a* | b*) are equivalent.



$$A, 0 = \{23, -B\}$$

D,0 = \$63. - D.

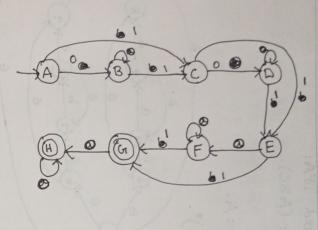
6-Closwo [12] = [12,15,13] — (G).

$$G_{1}, 0 = 2 149 \cdot - H$$

$$H, 1 = \phi$$

DFA:

States	I/	P 61
→A	B	C
B	B	C
C	D	E
D	D	E
E	F	G
F	F	G
*G	Н	ф
* H	Н	P



Minimized DFA:	ABCDEF	ABCDEF	GH GH
Po = (ABCDEF) (GH).	BBDDFF	CCEEGG	HH \$\$
P, = (AB) (CD)(EF) (GH). (AB) (CD) (EF) (GH)	AB CD UO	FF CC	11 11

P2 = (A) (C) (E) (G).

States	IN	>
→A	0	C
C	C	E
E	E	Gi
* G1	67	Φ

 $(0+1)^*$ $01 (0+1)^*$ = $(011)^*$ $01 (011)^*$. $(0+1)^*$ $01 (0+1)^*$ = $(011)^*$ $01 (011)^*$. $(0+1)^*$ $01 (0+1)^*$ = $(011)^*$ $01 (011)^*$. $(0+1)^*$ $01 (0+1)^*$ = $(011)^*$ $01 (011)^*$. $(0+1)^*$ $01 (0+1)^*$ = $(011)^*$ $01 (011)^*$. $(0+1)^*$ $01 (0+1)^*$ = $(011)^*$ $01 (011)^*$. $(0+1)^*$ $01 (0+1)^*$ = $(011)^*$ $01 (011)^*$. $(0+1)^*$ $01 (0+1)^*$ = $(011)^*$ $01 (011)^*$. $(0+1)^*$ = $(011)^*$ $01 (011)^*$. $(0+1)^*$ = $(011)^*$ = $(011)^*$ = $(011)^*$. $(0+1)^*$ = $(011)^*$ = $(011)^*$ = $(011)^*$. $(0+1)^*$ = $(011)^*$ = (01

States	I/	P
Status	0	
→ A	B	C
B	B	0
C	B	C
*D	E	F
*E	E	G
*F	E	F
* G1	E	F

A O B O C D	
(A) - (4,2,1,1,2,4) - A	

1	
	TTA .
Minimized	DEA.
A Nila WYIIZE	211

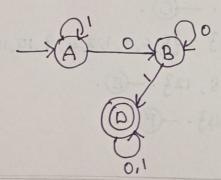
$$P_{i} = (AC)(B)(DPG)(E)$$

$$P_3 = (A)(B)(D).$$

01.408	工	19
States	0	mel.
→A	B	A
B	B	0
*D	α	D

ABC

CAC



5. $(011)^{+}$. = $(011)(011)^{*}$.

NFA: e = 0 e =