

ASSIGNMENT - 2

MEMBERS : 1. Madhan Thangavel (B00814916)
2. Akhil Bommini (B00820119)

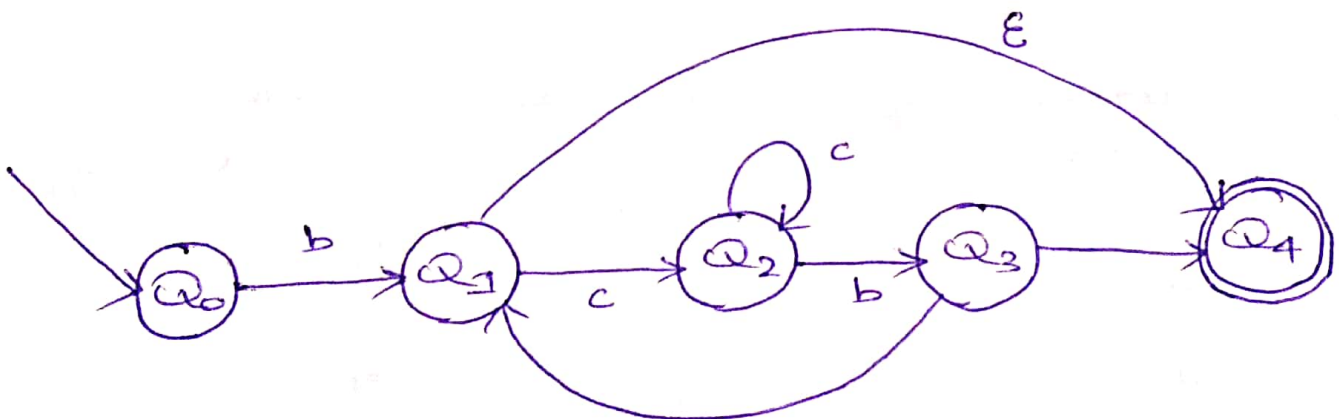
1. $\Sigma = \{a, b\}$

EXAMPLE : $\{ a, aa, ab, aab, aba, aabab, \dots \}$

REGULAR

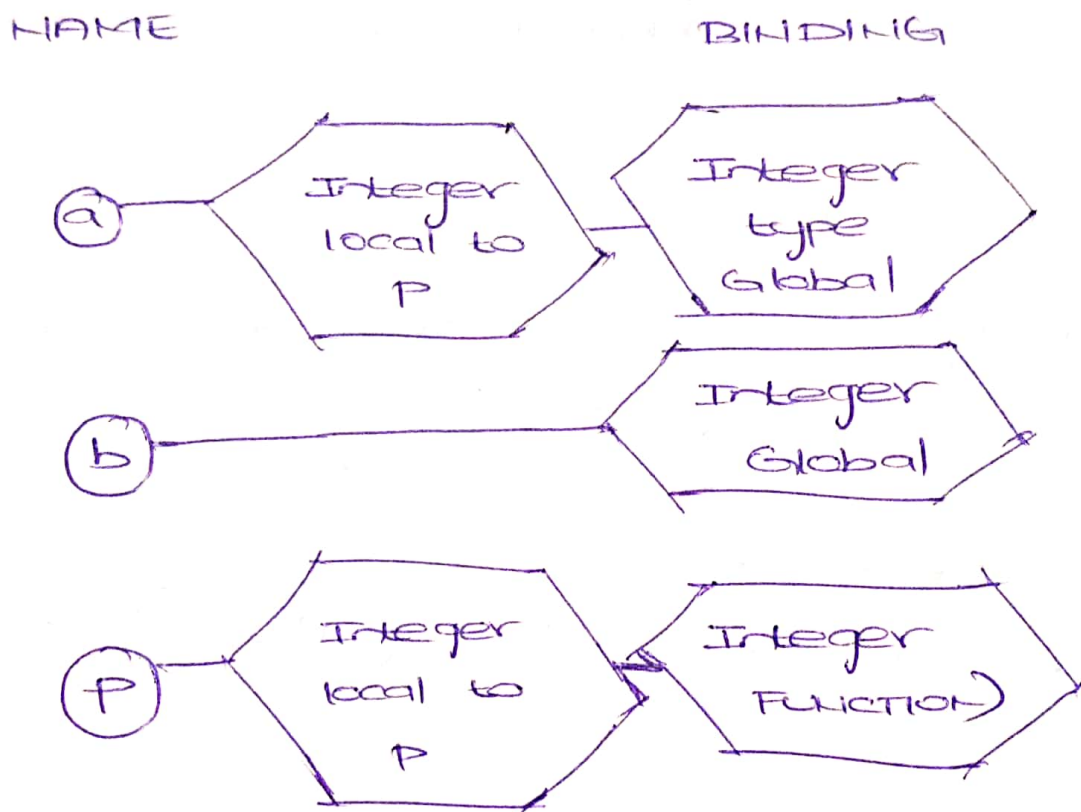
EXPRESSION : $(a^+b^+)^+$

2. AUTOMATON $b(c^+b)^*$



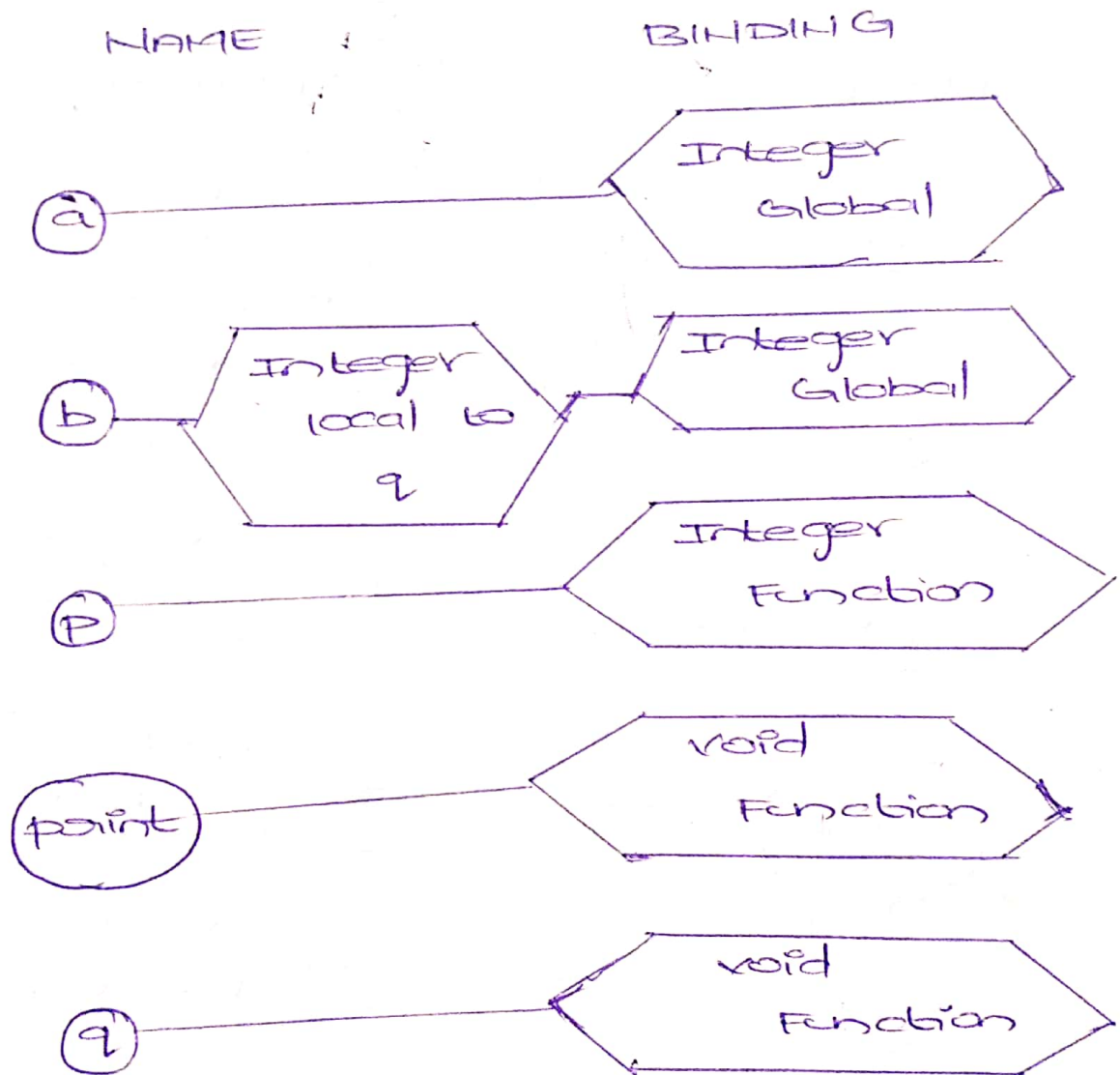
3. SYMBOL TABLE

a) AT POINT 1 USING STATIC SCOPE



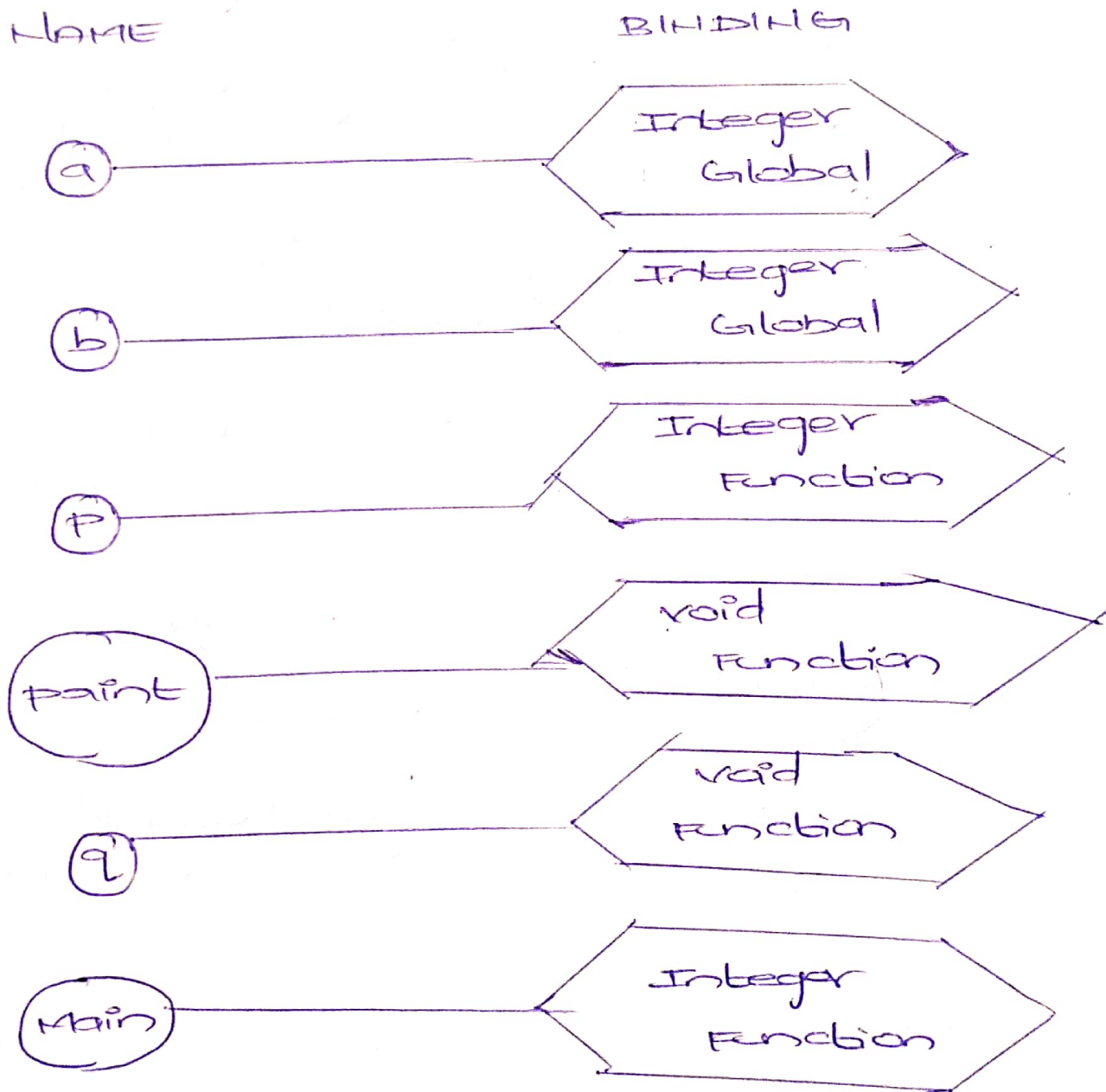
3 a) SYMBOL TABLE

ii) AT POINT 2 USING STATIC SCOPE



3 a) SYMBOL TABLE

iii) AT POINT 3 USING STATIC SCOPE



3 b) STATIC O/P
SCOPE

3

1

$a = 3, b = 1$

3 c) DYNAMIC
SCOPE O/P

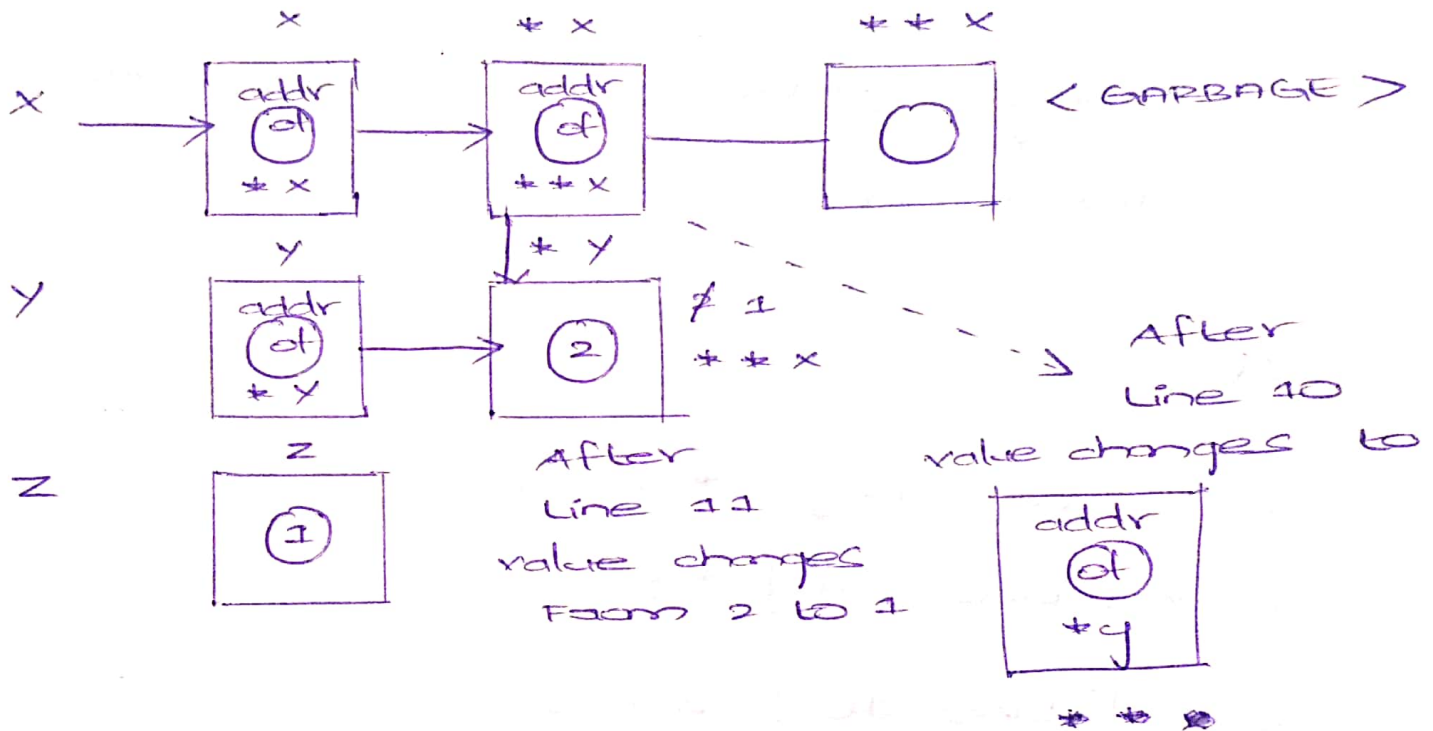
3

4

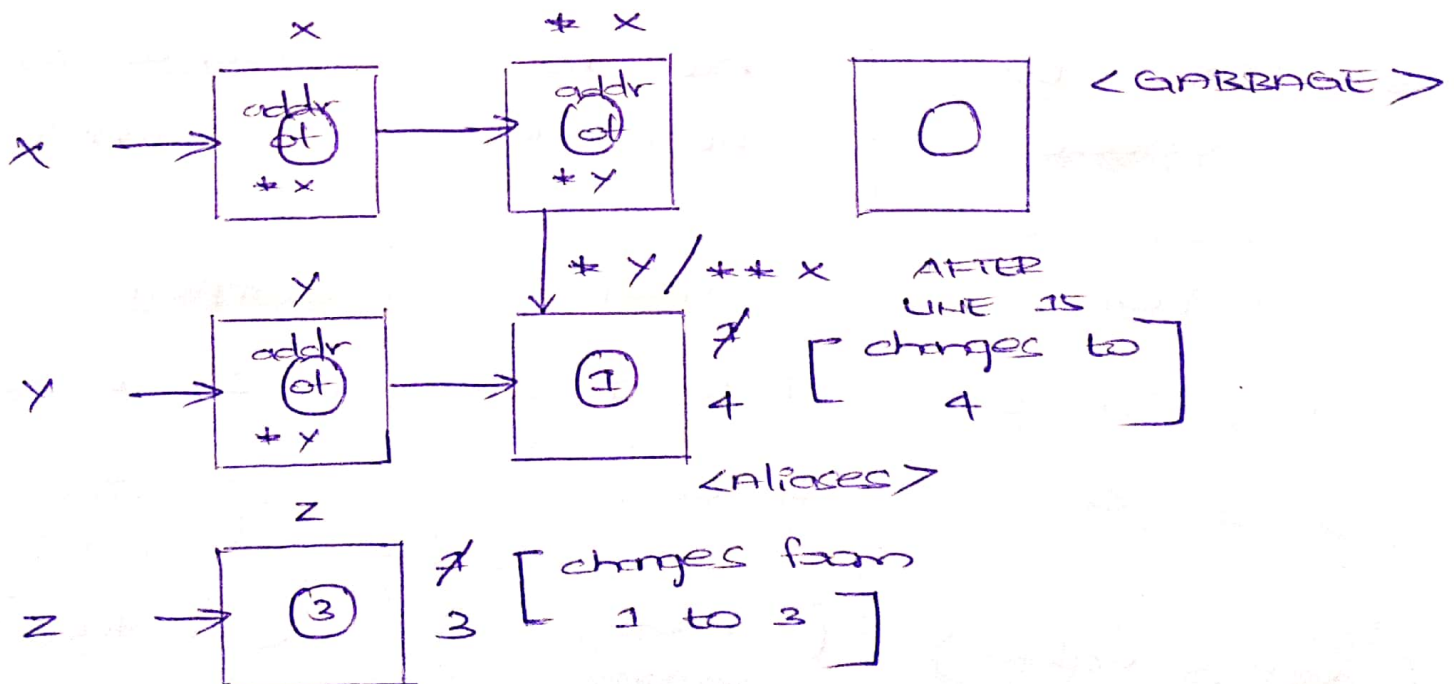
$a = 3, b = 4$

4. BOX CIRCLE DIAGRAM

LINE 11 :



LINE 15



4 B> Variables x and y $[++x \text{ and } ++y]$ are aliases to each other as they share the same memory location.

O/P

1 // [Line 12] $*y = 1$

1 // [Line 14] $*y = 1$

3 // [Line 16] $z = 3$

5. CALL BY VALUE	CALL BY REFERENCE	CALL BY NAME
OUTPUT	OUTPUT	OUTPUT
1 2 1 0	1 2 1 0	0 2 1 2
2 1 0	2 0 0	0 1 2
(Assign value)	(shares same location)	(Replace)