## COMPILER DESIGN

SAI RAM.K 2018|CSE0621 7-CSE-10 ASSIGNMENT-1

		Classmate  Date Page
0.1	ASSIGNMENT-2	Sai Ram. K 20181CSE0621 7-CSE-10
a	Expression: a*-(b+c)  Syntax tree:  Alminus	
	Postfix Notation:	
· c)	Three address code:	
	$t_1 = b + c$ $t_2 = \text{Uminust}_1$ $t_3 = a * t_2$	
	Expression: - (a+b)*(c+d)+(a+b+c)	
	Three address code; t, = a+b  t2 = c+d  t3 = t, + c  t4 = uniones t1  t5 = t4 t2	
	-t6 = t5 + t3	

2	-0181CSE Saikam	/	classmate pate age
argi	arg 2	hesult	
a c t, t, t4	b c - t <sub>2</sub> t <sub>3</sub>	t <sub>1</sub> t <sub>2</sub> t <sub>3</sub> t <sub>4</sub> t <sub>5</sub> t <sub>6</sub>	
a a c (0) (3)	d c c (1)		· ·

Taiples; Operator 0) (1)(2) Univus (3)

Univus

+

a J Quadruples: Operator

(0)

(1)

(2)

3)

(4)

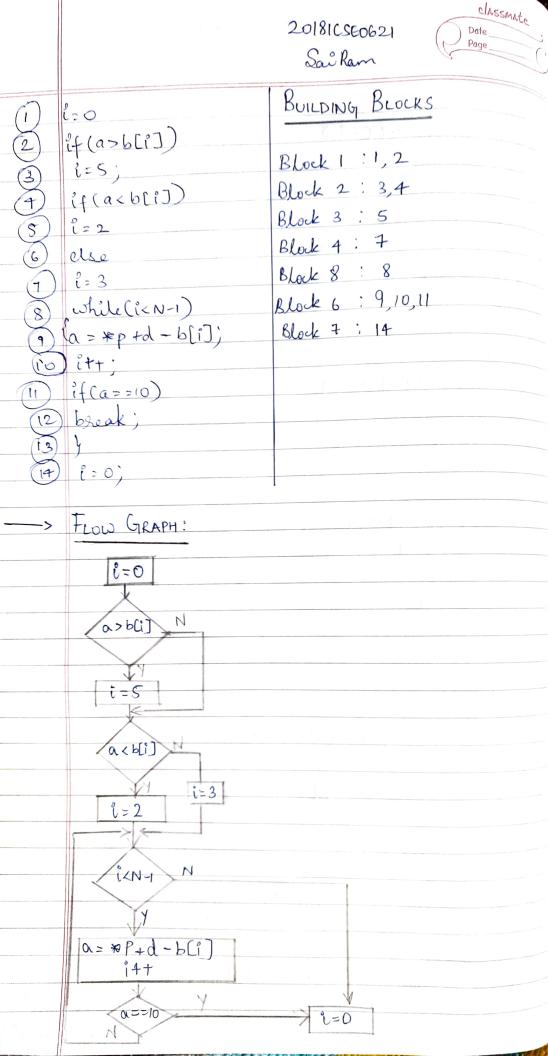
(s)

(4) \* (5) + (4) (s)

Indirect triples: stored Operator aegi alg2 (00) 9 (0) d c (01) (1) (02) (00) ~ (2) (03) (3) Unirus (00)

(04) (03) (4) (01) × (04) (05) (5) + (10)

classmate 2018/CSE0621 Sai Ram Q.3) Griven, i=1 ef (a>bci]) i=5; while (i< N-1) a = b[i]+c[i]\*\*p+d; if a > b[i] goto4 goto5 if ix N-1 goto 6 t2 = +p+d t2=c[:]\*t,  $a = b(i) + t_2$ ) goto 4 rf (a>b[i]) if (a< b[i]) whale (i < N-1) { a = \*p+d-b(i); if (a = = 10) breek;



classmate 20181CSE0621 Saikan.K. a>b of a < c and (a>b of a>c)
and not a if a>b goto 4 t1=0 goto 5 t<sub>1</sub>=1 if exd goto 8 goto 9 t2=1 if a>c goto 12 <u>goto 13</u> ty=nota to=t, ortz to 2 to and to ty = to and to to = t, or ta