		multiplier is 4-bits: must have 4 shifts									
	1001										
Multiplicand =		9			Product expecte	d: 9*11=99 [decin	nal]		Product in binar	: 0110 0011	
Multiplier =	1011		11								
		acts on shfits									
	current State	2-bit counter	Product Reg	Adder Reg	St (start)	M (multiplier check)	K (counter check	Load	Ad	Shift	Done (at the end)
tO	S0	b' 00	p. 0000 0000	b' 0000 0000	0	0	0	(0	0	0
t1	S0	b' 00	p, 0000 0000	p, 0000 0000	1 (begins load)	0	0	•	C	0	0
t2	S1	b' 00	p, 0000 0000	b' 0000 1001	0	1	0	(1	I C	0
t3	S2	b' 00	b' 0000 1001	b' 0000 1001	0	1	0	(0	1	0
t4	S1	b' 01	b' 0000 1001	b' 0001 0010	0	1	0	() 1	ı c	0
t5	S2	b' 01	b' 0001 1011	b' 0001 0010	0	1	0	(C) 1	0
t6	S1	b'10	b' 0001 1011	b' 0010 0100	0	0	0	() () 1	0
t7	S1	b'11	b' 0001 1011	b' 0100 1000	0	1	1	() 1	ı c	0
t8	S2	b' 11	b' 0110 0011	b' 0100 1000	0	1	1	(C) 1	0
t9	S3	b' 00	b' 0110 0011	p, 0000 0000	0	1	0	()	1