MAME: KRUNAL RANK Apm. No: U18(0081 BTECH JRD YEAR

## MIT Tutorial 4

And let us first calculate the T-states. Total Tstates=10 + (6+32+8+4+4)\*X + 10(x-1)+7 Here X denotes the number of himes the loop gets everated.

94 is equal to the value of BC pair when Box C is O.

Hence, At first check B: 12H C=FEH and se. This will

how until B=O and C=O. Hence X= (12FF)15= 4863.

Hence, Tstates = 10 + (54) (4863) + 10x4862+307

Delay = 311239 x 1 = 10374645 = 103.746ms

Ans 23 Delay generated by given code =

7+ (4+4+4) COUNT + tox(COUNT-1) +10+(count -1)+7=100 x3.072 14+12 COUNT + 10 COUNT - 10= 3072 22 COUNT + 4 = 3072

22 COUNT = 3068 303.2

COUNT: 303.7 = 15.34 1

	3. let the required 16 bit value be X.	
Ans	y [ ] Tetates and two popular	
The state of the s	= (6+4+4)X + 10(X-1) + 7	
and the second	2 24X -3	
	Total Tstates for so loop 2 are:	
	=(10+24x-3+4)20+19x10+7	
july	(11+24X)20+197	
Julia	= 220+480X+197 $= 480X+417$	
liva.	Nou,	
	480×+417=6144000	
September -	X = 12799.950	
Internal Control of the Control of t	~ (32 DD) 10	
uhn.	$\sim (3200)_{\rm H}$	
and the second		
Ans 42	let the required 16 bit value be X.  Then the total T states for toop 1 a are  10 + (6+4+4+10) X  2 24x+10	
ha.	Then the total T states for took 1 a	
	10 + (6+4+4+10) X	
1	2 24X+10	
	Nov,	
	24X+10= 250 x106 325	
	325	
	X=(32050.86)	1
	(35021)	
	$\sim (\pm D33)$	
97.3		

