	RO2102 Dynamics and Simulation	Tanay Stinivasa
	Homework-7	U20220086
Problem 23 Due : 22 - Mar - 20	25	Time Spent: 45 Minutes
	Sketch:	
	n. 13	
	, c	
	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
Given: m, L, g		FBD:
		TÂ 544
10 Find: Ö		ļ mĝ
Apply LMB,		
ζ; = m2		
+ -Tê, + mgî =	m(=2+33)	
lonstraint : Éx² + y² = L = const. j		
d tig +	yý = 0	
$\Rightarrow \frac{d}{dt} \left[\frac{d}{dt} \left\{ \xi \right\} \right] \Rightarrow ic^{1}$	+ xx + y + yy = 0	
9 K 16	+ yÿ = -(;i*, ÿ*)	
e = [x, y, x, y]'		
~	+ 0 ij + 6:0T = mg	
î . £ ∑î Fe mã} ⇒ 0 i	+ mÿ + sinōT = 0	

