CSE331

Assignment 1

mandal regitated MM

TD: 22101721

Section: 16

Arsweni. a. Li = 200 € \$13" 1011 when 175) Assume Was Li is a negular Language

P the pumping length. restyper is a suggestion.

- P+1. D ri = 041, 12 er-8-1-26 4,600 = 3,1 2 = 00000 0111 the pumping temma xy'z 6.40 remove the the string y decreax the number of o, when x2 there are Car not have more of than I not it not <del>projuters</del> member of L. Add no Li is not regular rolygon for of and on

emous A

L2 = 2 w & 40,13 of 10 where 12 3/3=11 2 Dappox L2 is regular. Moral prigrang ult 9

L2 = ·O 1

10011 --- 3p-1 p x=0x y=0 .Z=03P-1-d-13 P. [B≥1] 741= 000 0 0 0 1 1 1 10 = 11 = 0 1. 9 5/x 2 E L2 2 P-1-B+iB P E L2 Svigning it to=>1/2 ig- BZ1 in to nod man orations 2B-Box 200 tor 21 1/00 1/00 no Lz is not negular.

**CS** CamScanner

Assume La 15 a negular language
Pumping length is m

00001111222

**CS** CamScanner

## Case 2

 $\begin{array}{lll}
& 000111112222 \\
& uv'xy'z \\
& i=2 & uv'xy'z \\
& 00001100111112222 & L_3 \\
& 0'1^22'
\end{array}$ 

so there not equal number of 0,1,2.
it is violated the pumping lemma.
we can soy that Is is not regular
larguage.

d. Ly = fw# we Duchthod lwit=(we) when of 014.33 19! 1+ 19 + 1 = 1 puppose! Lu is negular. p is pumping length. colo militar la partir de la lordonid de solvido La 020 it inteden on to 19440 100 =7 141/2 = 2+20 + PINPS for 21 1 math If PLD. then D=max (a,P) all the fe compox of L Into xye

X = 0x

X = 0x

Resident of the started and 7 = 00 · B>1 zy'z E'L 24,55 = 0x 0,0 0,-x-p 70b+6; T = 8P=10-0 0P+P/01

Ly - ( w # up loughlost (w) - [we) a(2-1) + 9 them beta and is between I art and and 1's divides & factorial is Dhe time towardme dhe On it integen on not and it is integen them I is not equal to this. Aber biring is both site equal us. 1<0 . 0 = T 19 19 19 19 19 5 8 ノゴチェイン 19-9 0-2-70 0'0 0 = s'yn = 09=10-0 9+110-1 60