* Assignment 05 *

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* O.1] Solution:

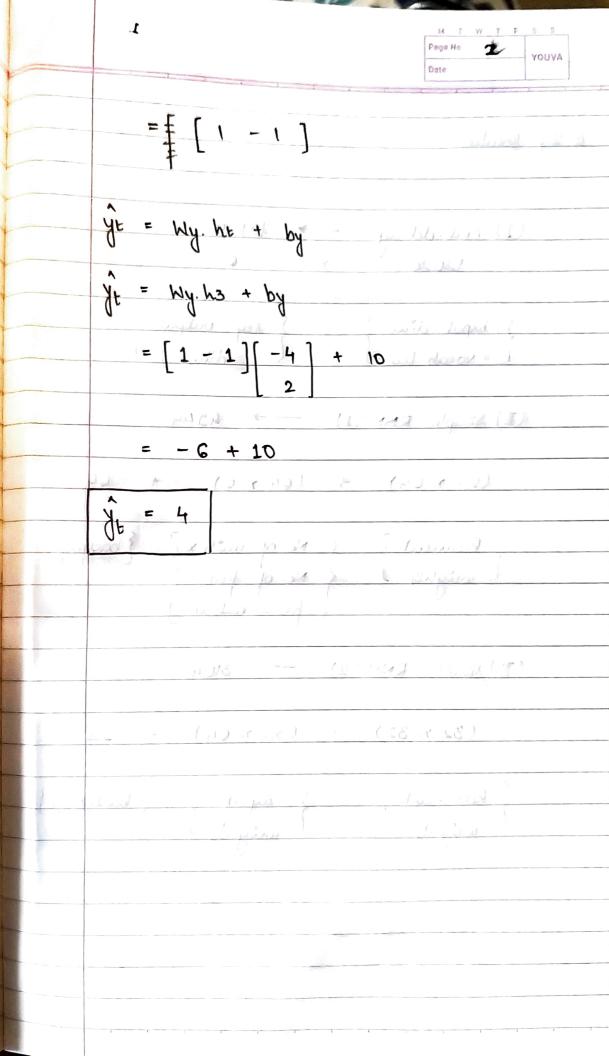
No. of RNN units = 2

Whx =
$$\begin{bmatrix} 3 & -4 \end{bmatrix}$$
; bh = 0

Wh = $\begin{bmatrix} 4 & -5 \\ -3 & 2 \end{bmatrix}$; by = 10

Why = $\begin{bmatrix} -4 \\ 2 \end{bmatrix}$; $\chi_1 = 1$, $\chi_2 = 2$, $\chi_3 = 3$

The = touh (Wx. $\chi_1 + \chi_2 + \chi_3 + \chi_4 + \chi_4 + \chi_5 + \chi_$



	Poge No. 3
Q.2.]	Solution:
	(I) Embedding -> 72120 12020 x 6
	{ input dinn } { leq. output }
	(I) Simple RMM (1) \longrightarrow 4544
	(64 x 64) + (64 x 6) + 64
	Recureut } (No. of with x } {backpap} weights No. of feat from embed
	(\mathbb{T}) limple RNN (2) \longrightarrow 3104
	$(32 \times 32) + (32 \times 64) + 32$
	{ Recurent } { input } { backpoop} weight } weight }

M T W T F S S Page No 4 YOUVA Date:
(N) Simple RMN (3) -> 784
(16 × 16) + (16 × 32) + 16
{ recurent } { input } { backprop } Weights weights
(V) Dense -> 408
(24 × 16) + 24
{ No. of with x No. of } { backprop }
(VI) Deuse (output layer) -> 150
(6 × 24) + 6
{ No. of o/p units × No.} {backprop}