Q4) solve the following LPP by big. M method and brone that the problem has no feasible solution.

 $max z = 5n_1 + 11m_2$ $5t 2n_1 + m_2 64$ $3n_1 + 4m_2 724$ $2n_1 - 3n_2 76$ $2n_1 n_1, m_2 70$

- introducing stack, surplus and a titinal variables

mex z= 5n, + 11m2 + Ong + Ong + Ong - Mng - Mng.

2m, + n2 + n3

 $3m_1 + 4m_2 - m_4$ $2m_1 - 3m_2 - m_4$

- n5 +n=+

ci | 2 2 B CB 15 NB 53 23 4 2 1 0 1 0 0 O min -ve zj-cj=-5M-5 4 0 - M 25 ns 24 3 -1 0 0 = 21 enter 0 -3 57 -M 0 0 -1 77 - M 55 0 · M 0 . 23 exist 2 key 1 w, 9, 1 1/2 1/2 0 0 0 - M 18. -3/2 -1 26 no 0 5/2 0 --M2 0 57 -1 27 37/2 5M/2 0 M M +5/2

in the basis at positive level

-: There is no feasible solution