D Ret 14 = a 10) + B11 . Then find an unifrary matrix M guch that M14 = 10 and M14 = 11 Where 14 = 10 - a + 11 Ans: - Let M = (2 y) bean unifrary matrix such that M14 = 10 and M14 = 11 , MM = M = II

NOW M14 = 10 

2) 14 = M+10 

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=)  $x^* = \alpha$ ,  $y^* = \beta$ 2)  $x = \alpha^*$   $y = \beta^*$   $x = \alpha$ 

and M14+) = 11)

 $3) \left( -\alpha_{+} \right) = \left( \frac{\lambda_{+}}{\Lambda_{+}} N_{+} \right) \left( \frac{1}{\Lambda_{+}} \right) = \left( \frac{N_{+}}{\Lambda_{+}} \right)$ 

>) Z# = B\* W\* = -a\*

2 Z=B W=-a

 $\therefore M = \begin{pmatrix} a^* & B^* \\ B & -\alpha \end{pmatrix}$