20) A in Terms of bidiagonal form can be written as A = QBQ B > bidiagonal matrix On > orthogonal matrix A = Q(D-u)(D-u) gT - 0 Here, D -> diagonal matrix with orbits of Berling B U -> diagonal matrix with off diagonal of B Huy (D+4) = D + 4 = D + U Thus 1 brownes  $A = Q(D-U)(D+U^{T})Q^{T}$ Considering a new matrix U,  $y = \alpha(D-u)$  $A = O(D + \overline{U})O^{T}$ Algorithm Set U=T, traverse through the matrix, -> compute dx of ), dk = akk - M(K-1,16) -> U KK = Vdk -> Uk, K+1 = MK+1, K It wate through matrix to get UKNEUR,K A = UDUTUT

= unu