tus take an orderered matin 2=d and B= \w, w, ..., wmy for W be any linear transformation in L Then we can find the matin of Twit bases & and B and let as call it [The R The mapping  $\phi: L(V, W) \rightarrow F^{mm}$  which take a linear transformation T to its matrix  $[T]_{A \Rightarrow B}$ . Somothism. band on choice of & and B