IRTM Assignment 5 CX1 (Feative Selection) 1(U,C)= E E P(u,C) (og2 P(u,C) with U and C boing disorche
red on Mix Pormi 10 The nutual Information can be defined as: Based on this formula we can conclude that a term scores higher Por class of the occurs multiple documents of this class them ofher terms In the documents for this class c. The score edso depends if a term occurs in documents which we classified differently. For our example this means the terms "caffe" and "tee" are good indicators for class C1 and ,, aspirir "and, paracehand" is a good indicator for class C2. The mutual information score for the term, dishk" for decor class G is even higher than for the golfe" and the". Same goes for the term "take" for class a and the other terms. However there is no inforfinalian that the term " can provide for this classification. EX5 (Page Rank) of telepothing with telepothing $P = \begin{pmatrix} P_{12} & P_{12} \\ P_{21} & P_{22} \end{pmatrix} = \begin{pmatrix} 0.1 & 0.5 \\ 0.1 & 0.5 \end{pmatrix}$ de de initial page is of equal probabilished distribution

To (0,5 0,5)

to 0,1 0,9

To (0,1 0,9) no change, therefore this is the page
rank value.