ACSIGNMENT -AIM: Doneyervised lenning K- Meros Sicrarchical clustering on OBJECTS VE : - To implement concept To implement concept - To find convergence THEORY: K-MEANS CLUSTERING : It aims to position a observations into K churches in which each observation belonge i hitally & eluster are chosen roundonly Three centraide are used to train descripes. The resulting alassifier classify the data I produce a round of ducters iii sach centraid is get to writhmetic means clusters it defines - alacification adjustment is repeated until the value contraids stato liec Final composide will be need to produce the fi classification | clustering of its data V. X

Page No.: 43159 MIERARCHICAL CLUSTERING sate mining, & statistics, hierarchical is a method of chreter analysis which seeks wild hielarchy Aglamerative: This is bottom-up approach. Each descreation starts on its own classics are needed as one hierarchy Divisive: This top-down approach. All observation stack in one divites I pain of dusters are merge as one moves down the presarch Wollding: I given cct of Nitems, to be chretesed untix, the book process of Johnson's hiera dustering is this Out by assigning each " fem you have Nikms each containing just one II Find all closest pair of dusters & merge them you have one less almotes iii Compute distances between new dustess & each chiefers all ikus are elestered Repeat (ii) & (iii) until a single alistes of size CONGLUSION: This we levent & implemented K-Menns christering in Pythi