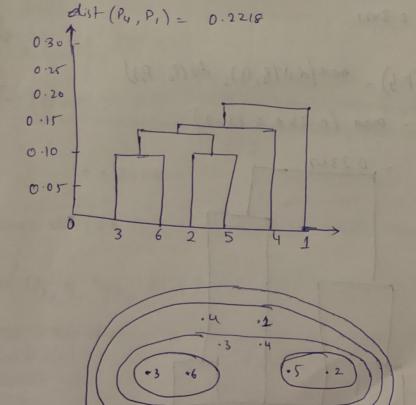
Auszgnment - 6

between any two points in the different clusters and that distance is the height at which they are joined into one cluster in the dendegram.

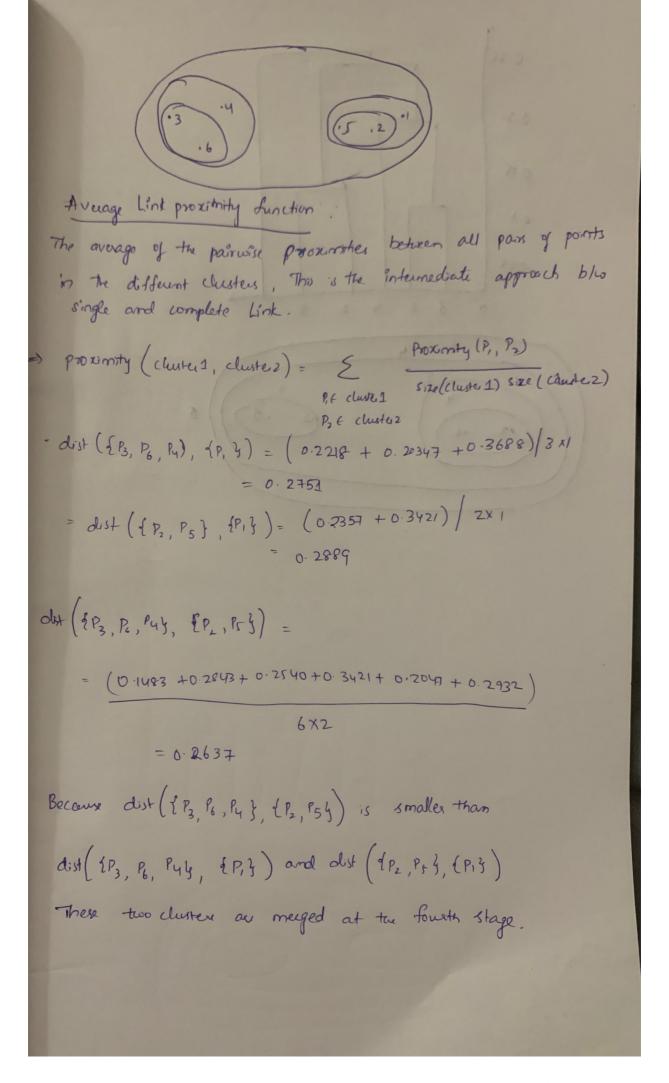
So, from the table given in the question 2= $dist(P_3, P_6) = 0.1100$ = $dist(P_2, P_5) = 0.1388$ = $dist(P_3, P_6), (P_2, P_5)$ }

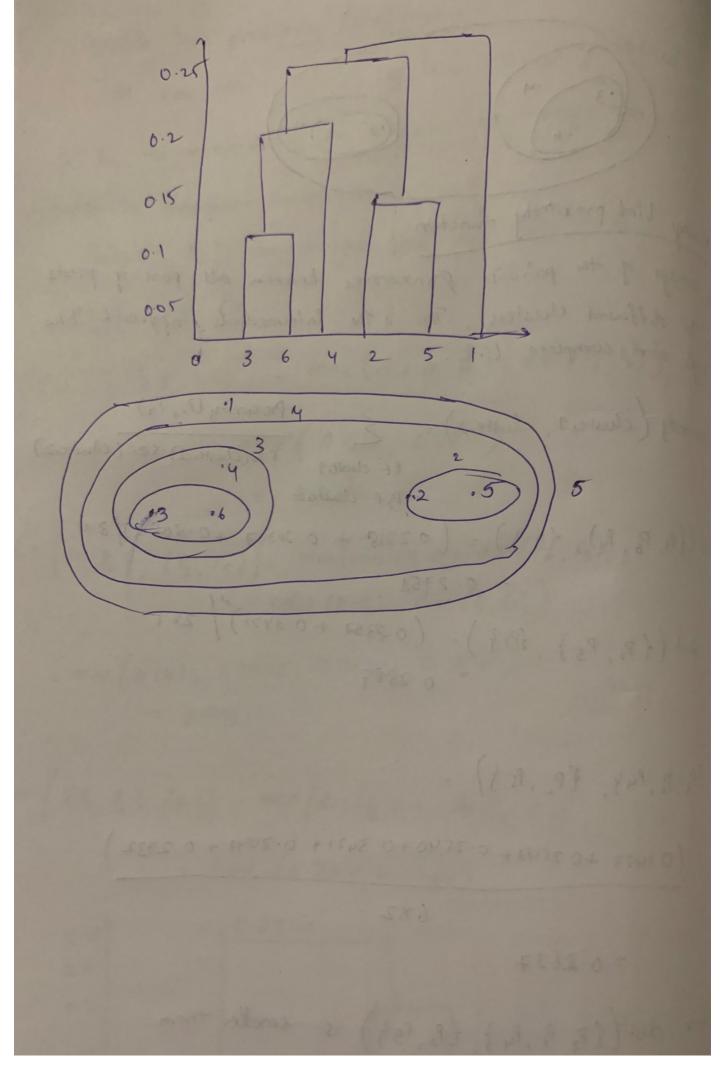
= $min(dist(P_3, P_6), (P_2, P_5))$ = $min(dist(P_3, P_6), 0.2540, 0.2593, 0.3928)$ = 0.1483= 0.1483= 0.1483



Complete look proximity function In her the proximity of two clusters is defined to be the maximum of the distance blue any two points in different clusters. Points (Ps, P6) are merged first and then it is merged with Py. dis ({P3, P64, {44}) = max (dist (3, P4); dist (P6, P4)) = max (0.1513, 0.2216) = 0.2216. dist ({13, P64, {P2, P53}}: max(dist (P3, P2); dist (P3, P5)); dit (P6, P2); dist (P6, P5)) = mai (0.1483, 0.2540; 0.28430, 0.3921) dist (EP3, P64; (P,4) = man (dist (B,P,); dut (P6, P,)) = max (0.2318, 0.2347) 0.25 0.20 0.15 0.1 0.05

Scanned with CamScanner





Scanned with CamScanner