Name - Nimit Sajal -USN-IBMISCSO 63 Date - 14/10/20 Its ADS Lat 3 - AVL Trees). int import ( mode + head, int val) of Chead == mull) return new mode (val). if ( head - val > val) head - left = unet (heard - left, val) ela if ( mad - val < val) word - sight = junst (head = sight, val),
elx
sutures mode. int bf & : height ( head lift ) - height (head = sight) if (bolance >1) if (head > left -> hey > val)
left rolete. left signil sotale. elu ij (balone < -1). { ij (head > eight -> ney > ney) right left Rotale. else. Right posste. else return rade. News

Name - Mimit Sajal USN- IBMICE 063. Date - 14/10/20-Wed. Pelete. int delete ( Node & road, int hy)

( if (noot == mull). return sout; if ( by < root + by) root - left = detirade (root - left, kg); she if ( my> root > my) root sight = delete voole (root = right, may); F if ((root > left == mill) | | M(root > sight = : mull))

{ Node r teny = root > Up 1 root > Up 1 root > right;

il (tomb == mull) if (tamp = - anull) { temp = post; soot = mull; x root = \* temp; free (temp); Noder temp = minvalu Node ( Noot -> Right); root > hy = temp > hy; root > right = delite Node (root > right , temp - hy); 9 And

Name - Nimil Safat USN- IBMI8CSOB3 . Date - 14/10/20- ved. if ( root == mulli) goot - height = 1+ mass (height (soot - slight), height (root-slight) int balance = get halance (root); if (balance > 1 & & get balance (root > 44) < 0)

{ root > left = left retate (root > left);

return righthotate (root);
}, ig (halance (-1 x & get halance (root -> might) 70).
zetur life rotalx (root). j (bolance <-12 & getbolance (2000t > right) >1) Root → Right = right Putote (2001 → right); actum Utlotate (2001); return soot

Sport