Expt. 1	Pa	age No.
M	Jode must (bet nod, leay)	
	O .	,
	f (node = = NULL)	
	return (new Node (key));	
	if (key & node -) key) node -) left = insut (node -) left , key);	
	Mad -) Core = Norre	
	eff che if (by 4 node - by)	
	elst che if (hy 4 node - hy) node - right = innet (node - right, hy) else	<u>.</u>
	else	
	returnodi;	
4	Node - harden I sman (baget (node - (M) , mode for	aht
		J
	nod + h,= 1+ man(h(node + 1), h(node + r));	
	1/20	75
. ,	int b = get Ralance (node); // balance.	<u> </u>
	V(L - 1 88 1/2 1 200 d . O - 1/4)	
	Vetern vight Robate (node);	
	TOOTH THE CHOOL	
	return left-frotate (vod):	
	return left frotate (nod);	
	[()	
	node - l = leftRotate (node - K); votun	richtRobato(nods).
		, ·
(Teacher's Signature :	

```
if (b 4 -1 82 kg ~ nod +v+ key)
      vo de → v = right Robate (node -v);
       veter left Robati (node);
  voter Atado nodo;
to delle ( voot, k) {
    if ( vool = Nous
          vetur root;
    of (ke voot = k)
        voor - ) = del (voor - 1, h);
    oler of (k 2 root -1 k)
         voor -v = del (voot-1 v. key);
        if ( (voot -1 = null) | (voot -1 = null)) }
              node * lemp = root - lo? voot -1: vooler voot-+r;
             of (temp = null)
                  temp = voot; voot = NULL'E
             + vort = 'temp ;
              hee (teny) ;
```

elseh no de + temp = min Value Node (voot +1); rout + K = temp + k; rook- r = del (rook-1, motemp-)4), it (voot = 2 NVL) return voot root toei root - h = 1+ man (h(root-1), h(root-18)); int b get between troot; int b = get B (root); il (1651 88 get B: (vool-115=0) return right Robate (vool);

Page No.

1 (b) 1 88 get B (voor -1 2) 2 0) (
your -> l = left Korati (voor -12);
return right robate (root);
<i>}</i>
if (b 2-198 golf g (roof + 9r) 2=0) { vetur left rotate
veture left votate
Tr (b L-1 EE gets (voof + v) > 0) { voof -1 v = vight Robate (voof -1 v); veton Let Robate 1 roof);
S work a key Work Poketo (rook a v);
NOTE IN BULL to I coal !
Me Holyame (1004)
) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
return god;
J
node lefthobabe(n)
y-left = n; n-right = Tel;
I velum y : P
2.
5
noded Eight Potate (y)
u - right = y ; y - left = Tz;
veturn W;
) VYWIVE

Teacher's Signature: __