Page No. MAME ANSHOL H. SUBALA Danisaniaco write a program a) To wastruck a brown beauth Tree B) To traverse the tree wing all the methods i e. in order preorder & post order. c) To display the elements in the tree. # include < Stdio h> #include < stallib h> state ando STORT 8 TROOP Appedet strock node int data; stroct rade * left. Street node * eight; 3 Node; rold tree (); Node * Create (); Node * insert (Node * Node *). world traverse (); void preorder (vode *): void in Order (Node*). void postorder (røde*).
boid display (røde*, int). of H. Swama int main

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Page No. NAME: ANSHUL H. SUPANA Date USN:18M19(5020 saturo 0; void free () int choice; printe (" Binary Search Tree In I. dreek Element In 2. Traverse Are methods In 3. Display BSTIN 4. Exitin Choice"); Scanf (" 1-d", & choice); Switch (choice) of Case 1: insert (root, create ()); preak; Case 2: travessel); preak ! Case 3: if (200+==NUL) printf (" In Torce is empty 1); else display (soot, 0); preak: cax 41 6xit(0). break; default: prints ("In Error Choice In") tree (): tree (): Mode * creak() hage * vernage = (hage) wolla (pire of (hoge). printf ("In Enter the Element,"). Scant ("1.d", & nownade of data). nouvode -> left = NOCC. newnode + right - will. sehm neumode. Anshul H. Surana

NAME : AUSHUL H. SUPANA Page No. Vm : 18M19 CSD20 vode * insert (Node * Root, Node * rewide) (NUM == +000) ti boot = vonouge; printf ("In Root vode Greated") else if (Root + right= NULL) Root & right = new rode; else insert (Root + right new Node) else it (neworde of data (Root of data) it (600+ + 101+ = = MOLL) Root -> left= new rode; else insert (BOOK -) left, rewnode). boid traverse() prints ("In The tree is Empty"). + (2000+== NOLL return! printe ("In Pre Order Traverse:"). Printf (" In Inorder Faverre."). Joshul H. Swana

Page No. NAME: ANSHUL H. SUPANA Date USN° 18M19CSO20 Printel "In Past Order Traverse:" Post Order (root); void Preorder (Node * Root) if (Root ! = NULL) printf (" 1.d' Root of data); preorder (Root + 1eft); preorder (Root + right); horder (node * Root it (BOOT != NULL) bostorder (boot +16tt); bostordar (boot -) tight); Printf (" 1.d" Poot + data): inorder (Root + right); void postorder (Hode * Root) if (Root ! = NULL) & postorder (Root -) left). bestorger (boot + sidny). printf 1" 1-d", Root + date); roid gablant (noge x soct int!) MUNE 14002) 71 display (root + right, it 1); for (=0; jci; +4) Printfl" 1.d In1 root a data).

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