## Binary Search tree

Step1: start

Step 2: Declare a structure and structure pointers
-for insertion, deletion and Bearch operation
and also declare a function-for increder
traversal.

step3: Declare a pointer as not and also the required Variable.

Step 4: Read the choice from the wer to perform inscribin, deletion, searching and inorder traversal.

steps: 12 the user choose to perform Insertion operation then read the value which is to be inserted to the rook tree from the user.

Step 5.1 : The value to the Insert pointer and also the rook pointer

Step 5.2 : check ig ! noot then allocate memory.

Step 5-2; Set the value to the into part of the root and then set left and right part of the root.

Step 5.4: check if root -) info 2x then (all the insert to lest of the roof

Step 5.5: Check of roof -sinfo ex then can be insert pointer to insert to the night at the root

Step 5.6 : Peturo the root.

Step 6: 16 the user choose to perform deletion operation then read the element to be defeted from the tree pass the root pointer and the item to the delete pointer.

Step 6.1 : Check if not ptr then print node not found

Step 6.2: Clse of ptr >info (x the can delete pointer by passing the right pointer and the item.

Step 6.3: Close ig ptr -> info >x theo call clelele pointer by passing the left pointer and the item

Step 6.4: check of phr sinfo == item then chack is

pho sleff == ph sright then free pts

and return hull.

Step 6.5: else if Ptr-left == nun then selpr. ptr-night and free ptr-return pl Step 6.6: else if pla =night == niell then set

PI = ptr ->left and free pto, return pi

Step 6.7: Else set p1 =pts -> night and p2 =pts -> night

Step 6.8: While pr -> lest not equal to null set

PI - left pt - sleft and free ptr, return p2

Step 6.9 : Return ptr

Step 7: 18 the user choose to perform Search operation the Call the pointer to perform search operation

Step 7.1 : Declare the neccessary pointers and vanables

Step 7.2 : Read the element to be searched.

Step 7.3: While Plo check of tem > plo - single then

Plor = ph - might

Step 7.4 : Else ig item <pt -> info then ptr =ptr->lezt

Step 7.5 : Else break

Step 7.6: check 1/6 plx than part that the element is found.

Step 7.7: Blac print clement not found in free

Steps: 12 the user choose to perform -barersal then call the traversal function and puss the root pointers.

Step 8-1: 1% root not equals to null recurrently all the functions by passing root - left

Step 8.2: print rook - ingo

Step 8:3: call the traversal Junchin recurselyely by passing noot another.

Stepq: End