**Design:** Code and output

**Code:**

class Tree:

    def \_\_init\_\_(self, key):

        self.left = None

        self.right = None

        self.val = key

def searchDLS(root, h, t):

    h -= 1

    if(h == -1):

        return 0

    if(root == None):

        return 0

    if(t == root.val):

        return root.val

    l = searchDLS(root.left, h, t)

    if (l != 0):

        return l

    r = searchDLS(root.right, h, t)

    if (r != 0):

        return r

    if(l == 0):

        return r

    else:

        return l

root = Tree(1)

root.left = Tree(2)

root.right = Tree(3)

root.left.left = Tree(4)

root.left.right = Tree(5)

root.right.left = Tree(6)

root.right.right = Tree(7)

h = 2

target = int(input("Enter target element : "))

x = searchDLS(root, h, target)

if(x == 0):

    x = -1

    print("Target element not found")

else:

    print("Target element found :", target)

Text

Description automatically generated