Step-by-Step Binary Tree Construction:

This document illustrates the step-by-step construction of a binary tree. Each step corresponds to the insertion of a new node, which modifies the tree structure as shown in the corresponding diagrams.

Explanation of Steps:

The binary tree evolves with each insertion based on the user's input. Below, each step shows the state of the tree after a new node has been added. The nodes are placed according to the specified parent node and whether the new node is a left or right child.
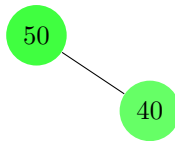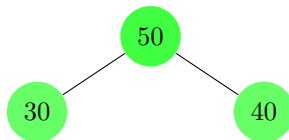
Figure 1: Step 1
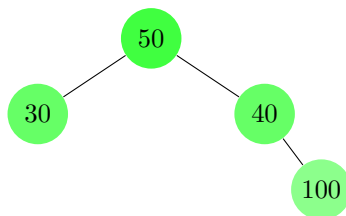
Figure 2: Step 2

Figure 3: Step 3

Figure 4: Step 4