**class** Node:

**def** \_\_init\_\_(self , key):

        self.data **=** key

        self.left **=** None

        self.right **=** None

**def** minDepth(root):

    # called on root = NULL

**if** root **is** None:

**return** 0

**if** root.left **is** None **and** root.right **is** None:

**return** 1

    # If left subtree is Null, recur for right subtree

**if** root.left **is** None:

**return** minDepth(root.right)**+**1

    # If right subtree is Null , recur for left subtree

**if** root.right **is** None:

**return** minDepth(root.left) **+**1

**return** min(minDepth(root.left), minDepth(root.right))**+**1

root **=** Node(1)

root.left **=** Node(2)

root.right **=** Node(3)

root.left.left **=** Node(4)

root.left.right **=** Node(5)

**print** (minDepth(root))