|  |  |  |
| --- | --- | --- |
| Input | Expected Result | Actual Result |
| Insert(5) | m\_root = 5 | m\_root = 5 |
| IsEmpty() = true (no Insert) | true | true |
| IsEmpty() = false (Insert(2)) | false | false |
| Find(8) Root already set | m\_root.GetLeft().GetData() = 8 | M\_root.GetLeft().GetData() = 8 |

Insert(5) Test:

Inserts a value of 5 into the binary tree. Since it is the first value being inserted, the value will be assigned to the root tree node.

IsEmpty() true Test:

Checks if the tree is empty by seeing if there are any values in the m\_root and returns a Boolean. In this case there were no values inserted into the tree so the root was empty.

IsEmpty() false Test:

In this case a value was inserted into the root before checking if it was empty and therefore returned false as the root was not empty.

Find(8) Test:

Found the tree node that had the value of 8 and returned a pointer to it.