

Test Cases

Test Case 1: Insert a new contact

Description:

Insert a contact "Jughead" with phone number " 530-523-7845" into an empty BST.

Observation:

Inserted Jughead as the root node.

Test Case 2: Search for an existing contact

Description:

Search for the contact "Jughead".

Observation:

Jughead's phone number is 530-523-7845.

Test Case 3: Search for a non-existing contact

Description:

Search for a contact "Jack" that hasn't been inserted.

Observation:

No such records in the database.

Test Case 4: Delete a contact with one child

Description:

Delete the contact "Cheryl".

Observation:

Deleting Cheryl

Test Case 5: In-order Traversal of the Tree

Description:

Display the tree using in-order traversal after insertions and deletions.

Observation:

[('Archie', '845-123-4589'), ('Betty', '784-482-9854'), ('Jughead', '530-523-7845'), ('Reggie', '780-845-8456'), ('Veronica', '985-254-4715')]