



**NAMIBIA UNIVERSITY**  
OF SCIENCE AND TECHNOLOGY

## Topic: **Phonebook Application**

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## Insert Modules

**Function:** InsertContact(String name, String phoneNumber)

**Purpose:** Adds a new contact to the phonebook.

## Pseudocode

Start

FUNCTION SearchContact(phonebook, name)

    CURRENT = phonebook

    WHILE CURRENT IS NOT NULL DO

        IF CURRENT.name == name THEN

            RETURN CURRENT.phoneNumber

        END IF

        CURRENT = CURRENT.next

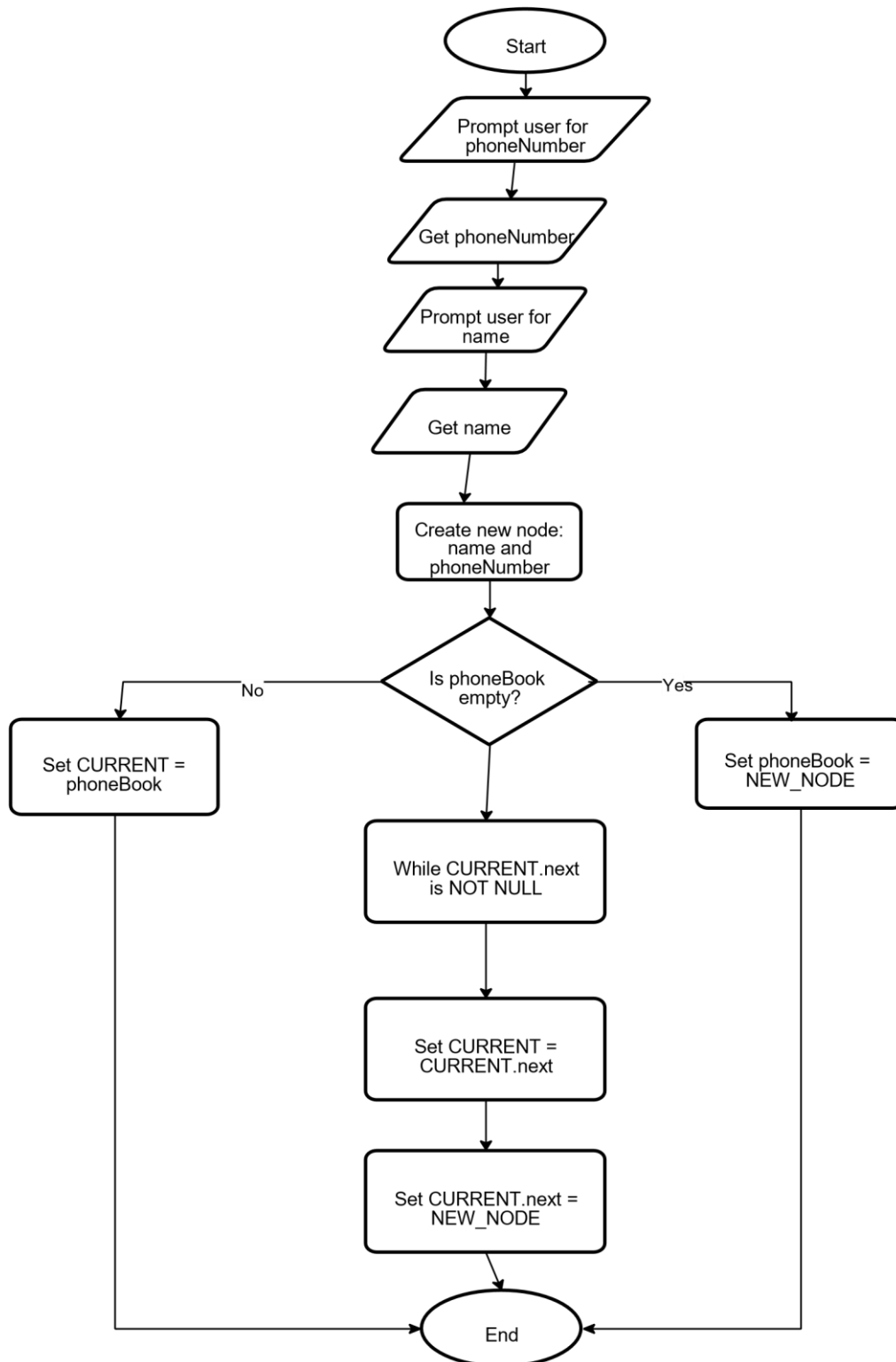
    END WHILE

    RETURN "Contact not found"

END FUNCTION

End

## Flowchart



## Code

```
private void cnAddActionPerformed(java.awt.event.ActionEvent evt) {  
  
    String Id = txtId.getText();  
    String firstName = txtfirstName.getText();  
    String lastName = txtlastName.getText();  
    String phoneNumber = txtphoneNumber.getText();  
  
    // Database connection  
    String url = "jdbc:mysql://localhost:3306/connector";  
    String user = "root";  
    String password = "6161586";  
  
    try (java.sql.Connection conn = DriverManager.getConnection(url, user, password)) {  
        String sql = "INSERT INTO contact (Id, firstName, lastName, phoneNumber)  
VALUES (?, ?, ?, ?)";  
  
        try (PreparedStatement pstmt = conn.prepareStatement(sql)) {  
            pstmt.setString(1, Id);  
            pstmt.setString(2, firstName);  
            pstmt.setString(3, lastName);  
            pstmt.setString(4, phoneNumber);  
            pstmt.executeUpdate();  
            JOptionPane.showMessageDialog(this, "Contact saved successfully!");  
        }  
  
    } catch (SQLException ex) {  
        ex.printStackTrace();  
    }  
}
```

```
JOptionPane.showMessageDialog(this, "Error saving contact: " + ex.getMessage());  
}  
}
```