To conduct Boundary Value Analysis (BVA) in Eclipse Oxygen IDE using JUnit for the provided requirements, here's a step-by-step guide based on the document content:

Step-by-Step Demonstration

1. Set up Eclipse Oxygen IDE:

- Open Eclipse Oxygen and create a new Java project (File > New > Java Project).
- o Name your project (e.g., "BankingAppBVA").

2. Add JUnit Library:

- o Right-click on your project > Properties.
- o Navigate to Java Build Path > Libraries tab > Add Library... > select JUnit (choose JUnit 5 for this example) > Finish.

3. Create a New Java Class:

- o Right-click on src > New > Class.
- o Name the class (e.g., BankingApplicationTest).
- o Ensure the public static void main(String[] args) box is unchecked.

4. Implement the Validation Logic:

```
import static org.junit.jupiter.api.Assertions.*;
import org.junit.jupiter.api.Test;
public class BankingApplicationTest {
 // Helper method to simulate validation (for demonstration)
 public boolean validateInput(String areaCode, String prefix, String suffix, String password, String
command) {
   return (areaCode.matches("\\d{3}") || areaCode.isEmpty()) &&
       prefix.matches("\\d{3}") && Integer.parseInt(prefix) >= 200 && Integer.parseInt(prefix) <=
999 &&
       9999 &&
       password.matches("\\w{6}") &&
       (command.equals("Check status") || command.equals("Deposit") ||
command.equals("Withdrawal"));
 }
 // Example Positive Test Cases
  @Test
```

```
public void testValidMinAreaCode() {
    assertTrue(validateInput("000", "200", "1000", "abc123", "Check status"));
}

@Test
public void testValidMaxAreaCode() {
    assertTrue(validateInput("999", "999", "9999", "xyz456", "Deposit"));
}

// Add remaining positive and negative test cases here following the format.
}
```