```
import java.util.Optional;
class Address {
  private String city;
  private String state;
  public Address(String city, String state) {
    this.city = city;
    this.state = state;
  public String getCity() {
     return city;
  public String getState() {
     return state;
class Employee {
```

```
private String name;
  private String primaryPhone;
  private Optional<String> alternatePhone;
// Optional for alternate phone number
  private Optional<Address> address;
// Optional for address
  public Employee(String name, String
primaryPhone, String alternatePhone,
Address address) {
    this.name = name;
    this.primaryPhone = primaryPhone;
    this.alternatePhone =
Optional.ofNullable(alternatePhone); //
Might be null
    this.address =
Optional.ofNullable(address);
Might be null
```

public Optional<String>

```
getAlternatePhone() {
    return alternatePhone;
  public Optional<Address> getAddress() {
    return address;
public class Main {
  public static void main(String[] args) {
    // Create an employee with no
alternate phone and no address
    Employee employee1 = new
Employee("John Doe", "1234567890", null,
null);
    // Create an employee with an
alternate phone and address
    Address address2 = new
Address("New York", "NY");
```

```
Employee employee2 = new
Employee("Jane Smith", "9876543210",
"5551234567", address2);
    // Check if employee1 has an
alternate phone number
employee1.getAlternatePhone().ifPresent(p
hone ->
      System.out.println("Employee1 has
an alternate phone: " + phone)
    );
    // Check if employee2 has an
alternate phone number
employee2.getAlternatePhone().ifPresent(p
hone ->
      System.out.println("Employee2 has
an alternate phone: " + phone)
```

```
// Using map() to retrieve the
employee's city (address might be null)
    String city1 = employee1.getAddress()
                  .map(Address::getCity)
                  .orElse("Address not
available");
    System.out.println("Employee1 city: "
+ city1);
    // Using flatMap() to retrieve the
employee's state (address might be null)
    String state2 =
employee2.getAddress()
                   .flatMap(address ->
Optional.ofNullable(address.getState()))
                   .orElse("State not
available");
    System.out.println("Employee2 state: "
+ state2);
```

