NPM   : 212310035

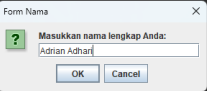Nama   : Adrian Adhari

Hasil Praktikum-3-Swing-1
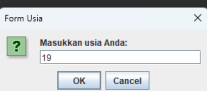
1. Latihan02.java

```java
import javax.swing.JOptionPane;

public class Latihan02 {

    public static void main(String[] args) {
        Biodata bio = new Biodata();

        JOptionPane.showMessageDialog(null, "Selamat Datang!");

        String nama = JOptionPane.showInputDialog(null, "Masukkan nama lengkap Anda:", "Form Nama", JOptionPane.QUESTION_MESSAGE);
        String usia = JOptionPane.showInputDialog(null, "Masukkan usia Anda:", "Form Usia", JOptionPane.QUESTION_MESSAGE);
        String alamat = JOptionPane.showInputDialog(null, "Masukkan alamat Anda:", "Form Alamat", JOptionPane.QUESTION_MESSAGE);

        int Usia = Integer.parseInt(usia);

        bio.setData(nama, Usia, alamat);
        bio.getData();
    }
}
```

Form Alamat

? Masukkan alamat Anda:
Kedung Halang, Bogor Utara

OK   Cancel

```java
import javax.swing.JOptionPane;

public class Latihan02 {

    public static void main(String[] args) {
        Biodata bio = new Biodata();

        JOptionPane.showMessageDialog(null, "Selamat Datang!");

        String nama = JOptionPane.showInputDialog(null, "Masukkan nama lengkap Anda:", "Form Nama", JOptionPane.QUESTION_MESSAGE);
        String usia = JOptionPane.showInputDialog(null, "Masukkan usia Anda:", "Form Usia", JOptionPane.QUESTION_MESSAGE);
        String alamat = JOptionPane.showInputDialog(null, "Masukkan alamat Anda:", "Form Alamat", JOptionPane.QUESTION_MESSAGE);

        int Usia = Integer.parseInt(usia);

        bio.setData(nama, Usia, alamat);
        bio.getData();
    }
}
```
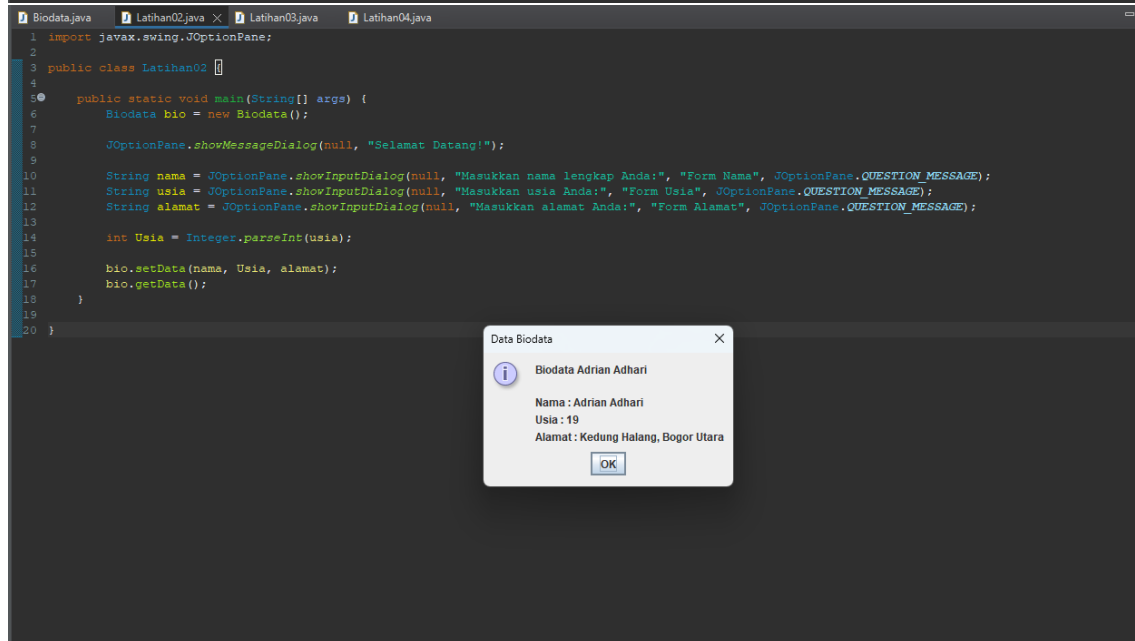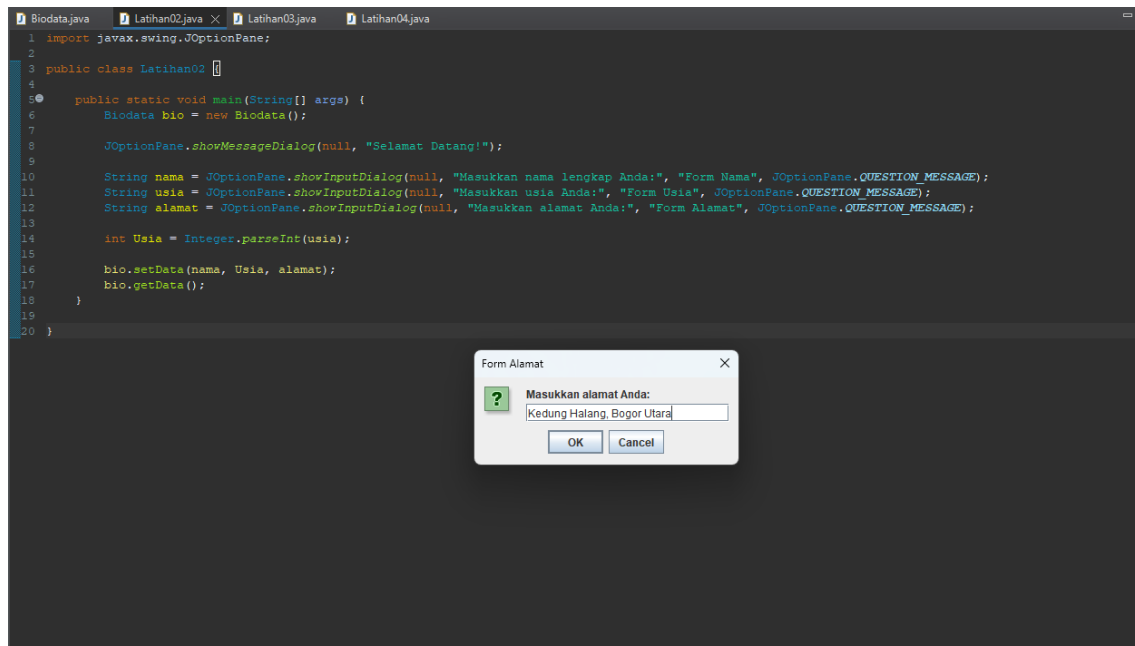
Data Biodata

i Biodata Adrian Adhari

Nama : Adrian Adhari
Usia : 19
Alamat : Kedung Halang, Bogor Utara

OK

2. Latihan03.java

```java
import javax.swing.JOptionPane;

public class Latihan03 {

    public static void main(String[] args) {
        Biodata bio = new Biodata();

        JOptionPane.showMessageDialog(null, "Selamat Datang!");
        final String WARN = "PERINGATAN!";

        String nama = JOptionPane.showInputDialog(null, "Masukkan nama lengkap Anda:", "Form Nama", JOptionPane.QUESTION_MESSAGE);

        if(nama.isEmpty()) {
            JOptionPane.showMessageDialog(null, "Field Form Nama tidak boleh kosong!", WARN, JOptionPane.WARNING_MESSAGE);
            System.exit(0);
        }


        String usia = JOptionPane.showInputDialog(null, "Masukkan usia Anda:", "Form Usia", JOptionPane.QUESTION_MESSAGE);
        final String REG_NUMERIK = "[0-9]+";

        if(usia.isEmpty()) {
            JOptionPane.showMessageDialog(null, "Field Form Usia tidak boleh kosong!", WARN, JOptionPane.WARNING_MESSAGE);
        } else if(!usia.matches(REG_NUMERIK)) {
            JOptionPane.showMessageDialog(null, "Isian Form Usia harus numerik!", WARN, JOptionPane.WARNING_MESSAGE);
        }


        String alamat = JOptionPane.showInputDialog(null, "Masukkan alamat Anda:", "Form Alamat", JOptionPane.QUESTION_MESSAGE);

        if(alamat.isEmpty()) {
            JOptionPane.showMessageDialog(null, "Field Form Alamat tidak boleh kosong!", WARN, JOptionPane.WARNING_MESSAGE);
        } else if(alamat.length() < 10) {
            JOptionPane.showMessageDialog(null, "Masukkan alamat minimum 10 karakter!", WARN, JOptionPane.WARNING_MESSAGE);
        }

        int pUsia = Integer.parseInt(usia);

        bio.setData(nama, pUsia, alamat);
        bio.getData();
```

Screenshot 1:

Tabs: Biodata.java | Latihan02.java | Latihan03.java × | Latihan04.java

```java
import javax.swing.JOptionPane;

public class Latihan03 {

    public static void main(String[] args) {
        Biodata bio = new Biodata();

        JOptionPane.showMessageDialog(null, "Selamat Datang!");
        final String WARN = "PERINGATAN!";

        String nama = JOptionPane.showInputDialog(null, "Masukkan nama lengkap Anda:", "Form Nama", JOptionPane.QUESTION_MESSAGE);

        if(nama.isEmpty()) {
            JOptionPane.showMessageDialog(null, "Field Form Nama tidak boleh kosong!", WARN, JOptionPane.WARNING_MESSAGE);
            System.exit(0);
        }


        String usia = JOptionPane.showInputDialog(null, "Masukkan usia Anda:", "Form Usia", JOptionPane.QUESTION_MESSAGE);
        final String REG_NUMERIK = "[0-9]+";

        if(usia.isEmpty()) {
            JOptionPane.showMessageDialog(null, "Field Form ...", ... JOptionPane.WARNING_MESSAGE);
        } else if(!usia.matches(REG_NUMERIK)) {
            JOptionPane.showMessageDialog(null, "Isian Form ... Pane.WARNING_MESSAGE);
        }


        String alamat = JOptionPane.showInputDialog(null, "Masukkan alamat Anda:", "Form Alamat", JOptionPane.QUESTION_MESSAGE);

        if(alamat.isEmpty()) {
            JOptionPane.showMessageDialog(null, "Field Form Alamat tidak boleh kosong!", WARN, JOptionPane.WARNING_MESSAGE);
        } else if(alamat.length() < 10) {
            JOptionPane.showMessageDialog(null, "Masukkan alamat minimum 10 karakter!", WARN, JOptionPane.WARNING_MESSAGE);
        }

        int pUsia = Integer.parseInt(usia);

        bio.setData(nama, pUsia, alamat);
        bio.getData();
```

Dialog (Form Alamat):
Masukkan alamat Anda:
Bogor
[OK] [Cancel]

Screenshot 2:

Tabs: Biodata.java | Latihan02.java | Latihan03.java × | Latihan04.java

```java
import javax.swing.JOptionPane;

public class Latihan03 {

    public static void main(String[] args) {
        Biodata bio = new Biodata();

        JOptionPane.showMessageDialog(null, "Selamat Datang!");
        final String WARN = "PERINGATAN!";

        String nama = JOptionPane.showInputDialog(null, "Masukkan nama lengkap Anda:", "Form Nama", JOptionPane.QUESTION_MESSAGE);

        if(nama.isEmpty()) {
            JOptionPane.showMessageDialog(null, "Field Form Nama tidak boleh kosong!", WARN, JOptionPane.WARNING_MESSAGE);
            System.exit(0);
        }


        String usia = JOptionPane.showInputDialog(null, "Masukkan usia Anda:", "Form Usia", JOptionPane.QUESTION_MESSAGE);
        final String REG_NUMERIK = "[0-9]+";

        if(usia.isEmpty()) {
            JOptionPane.showMessageDialog(null, "Field Form ...", ... JOptionPane.WARNING_MESSAGE);
        } else if(!usia.matches(REG_NUMERIK)) {
            JOptionPane.showMessageDialog(null, "Isian Form ... Pane.WARNING_MESSAGE);
        }


        String alamat = JOptionPane.showInputDialog(null, "Masukkan alamat Anda:", "Form Alamat", JOptionPane.QUESTION_MESSAGE);

        if(alamat.isEmpty()) {
            JOptionPane.showMessageDialog(null, "Field Form Alamat tidak boleh kosong!", WARN, JOptionPane.WARNING_MESSAGE);
        } else if(alamat.length() < 10) {
            JOptionPane.showMessageDialog(null, "Masukkan alamat minimum 10 karakter!", WARN, JOptionPane.WARNING_MESSAGE);
        }

        int pUsia = Integer.parseInt(usia);

        bio.setData(nama, pUsia, alamat);
        bio.getData();
```

Dialog (PERINGATAN!):
Masukkan alamat minimum 10 karakter!
[OK]

Screenshot 3:

Tabs: Biodata.java | Latihan02.java | Latihan03.java × | Latihan04.java

```java
import javax.swing.JOptionPane;

public class Latihan03 {

    public static void main(String[] args) {
        Biodata bio = new Biodata();

        JOptionPane.showMessageDialog(null, "Selamat Datang!");
        final String WARN = "PERINGATAN!";

        String nama = JOptionPane.showInputDialog(null, "Masukkan nama lengkap Anda:", "Form Nama", JOptionPane.QUESTION_MESSAGE);

        if(nama.isEmpty()) {
            JOptionPane.showMessageDialog(null, "Field Form Nama tidak boleh kosong!", WARN, JOptionPane.WARNING_MESSAGE);
            System.exit(0);
        }


        String usia = JOptionPane.showInputDialog(null, "Masukkan usia Anda:", "Form Usia", JOptionPane.QUESTION_MESSAGE);
        final String REG_NUMERIK = "[0-9]+";

        if(usia.isEmpty()) {
            JOptionPane.showMessageDialog(null, "Field Form ...", ... JOptionPane.WARNING_MESSAGE);
        } else if(!usia.matches(REG_NUMERIK)) {
            JOptionPane.showMessageDialog(null, "Isian Form ... Pane.WARNING_MESSAGE);
        }


        String alamat = JOptionPane.showInputDialog(null, "Ma...", JOptionPane.QUESTION_MESSAGE);

        if(alamat.isEmpty()) {
            JOptionPane.showMessageDialog(null, "Field Form Alamat tidak boleh kosong!", WARN, JOptionPane.WARNING_MESSAGE);
        } else if(alamat.length() < 10) {
            JOptionPane.showMessageDialog(null, "Masukkan alamat minimum 10 karakter!", WARN, JOptionPane.WARNING_MESSAGE);
        }

        int pUsia = Integer.parseInt(usia);

        bio.setData(nama, pUsia, alamat);
        bio.getData();
```

Dialog (Data Biodata):
Biodata Adrian Adhari

Nama : Adrian Adhari
Usia : 19
Alamat : Bogor
[OK]

```java
import javax.swing.JOptionPane;

public class Latihan03 {

    public static void main(String[] args) {
        Biodata bio = new Biodata();

        JOptionPane.showMessageDialog(null, "Selamat Datang!");
        final String WARN = "PERINGATAN!";

        String nama = JOptionPane.showInputDialog(null, "Masukkan nama lengkap Anda:", "Form Nama", JOptionPane.QUESTION_MESSAGE);

        if(nama.isEmpty()) {
            JOptionPane.showMessageDialog(null, "Field Form Nama tidak boleh kosong!", WARN, JOptionPane.WARNING_MESSAGE);
            System.exit(0);
        }


        String usia = JOptionPane.showInputDialog(null, "Masukkan usia Anda:", "Form Usia", JOptionPane.QUESTION_MESSAGE);
        final String REG_NUMERIK = "[0-9]+";

        if(usia.isEmpty()) {
            JOptionPane.showMessageDialog(null, "Field Form ...                    ...ptionPane.WARNING_MESSAGE);
        } else if(!usia.matches(REG_NUMERIK)) {
            JOptionPane.showMessageDialog(null, "Isian Form ...              ...Pane.WARNING_MESSAGE);
        }


        String alamat = JOptionPane.showInputDialog(null, "Masukkan alamat Anda:", "Form Alamat", JOptionPane.QUESTION_MESSAGE);

        if(alamat.isEmpty()) {
            JOptionPane.showMessageDialog(null, "Field Form Alamat tidak boleh kosong!", WARN, JOptionPane.WARNING_MESSAGE);
        } else if(alamat.length() < 10) {
            JOptionPane.showMessageDialog(null, "Masukkan alamat minimum 10 karakter!", WARN, JOptionPane.WARNING_MESSAGE);
        }

        int pUsia = Integer.parseInt(usia);

        bio.setData(nama, pUsia, alamat);
        bio.getData();
```

Form Usia dialog:
Masukkan usia Anda:
ss
[OK] [Cancel]

```java
import javax.swing.JOptionPane;

public class Latihan03 {

    public static void main(String[] args) {
        Biodata bio = new Biodata();

        JOptionPane.showMessageDialog(null, "Selamat Datang!");
        final String WARN = "PERINGATAN!";

        String nama = JOptionPane.showInputDialog(null, "Masukkan nama lengkap Anda:", "Form Nama", JOptionPane.QUESTION_MESSAGE);

        if(nama.isEmpty()) {
            JOptionPane.showMessageDialog(null, "Field Form Nama tidak boleh kosong!", WARN, JOptionPane.WARNING_MESSAGE);
            System.exit(0);
        }


        String usia = JOptionPane.showInputDialog(null, "Masukkan usia Anda:", "Form Usia", JOptionPane.QUESTION_MESSAGE);
        final String REG_NUMERIK = "[0-9]+";

        if(usia.isEmpty()) {
            JOptionPane.showMessageDialog(null, "Field Form U...                ...ptionPane.WARNING_MESSAGE);
        } else if(!usia.matches(REG_NUMERIK)) {
            JOptionPane.showMessageDialog(null, "Isian Form U...          ...Pane.WARNING_MESSAGE);
        }


        String alamat = JOptionPane.showInputDialog(null, "Masukkan alamat Anda:", "Form Alamat", JOptionPane.QUESTION_MESSAGE);

        if(alamat.isEmpty()) {
            JOptionPane.showMessageDialog(null, "Field Form Alamat tidak boleh kosong!", WARN, JOptionPane.WARNING_MESSAGE);
        } else if(alamat.length() < 10) {
            JOptionPane.showMessageDialog(null, "Masukkan alamat minimum 10 karakter!", WARN, JOptionPane.WARNING_MESSAGE);
        }

        int pUsia = Integer.parseInt(usia);

        bio.setData(nama, pUsia, alamat);
        bio.getData();
```

PERINGATAN! dialog:
⚠ Isian Form Usia harus numerik!
[OK]

3. Latihan04.java


```java
import javax.swing.JOptionPane;

public class Latihan04 {

    public static void main(String[] args) {
        Biodata bio = new Biodata();

        JOptionPane.showMessageDialog(null, "Selamat Datang!");
        final String WARN = "PERINGATAN!";
        boolean isLanjut = true;

        while(isLanjut) {
            String nama = JOptionPane.showInputDialog(null, "Masukkan nama lengkap Anda:", "Form Nama", JOptionPane.QUESTION_MESSAGE);

            if(nama.isEmpty()) {
                JOptionPane.showMessageDialog(null, "Field Form Nama tidak boleh kosong!", WARN, JOptionPane.WARNING_MESSAGE);
                System.exit(0);
            }


            String usia = JOptionPane.showInputDialog(null, "Masukkan usia Anda:", "Form Usia", JOptionPane.QUESTION_MESSAGE);
            final String REG_NUMERIK = "[0-9]+";

            if(usia.isEmpty()) {
                JOptionPane.showMessageDialog(null, "Field        JOptionPane.WARNING_MESSAGE);
            } else if(!usia.matches(REG_NUMERIK)) {
                JOptionPane.showMessageDialog(null, "Isian              tionPane.WARNING_MESSAGE);
                System.exit(0);
            }


            String alamat = JOptionPane.showInputDialog(null, "Masukkan alamat Anda:", "Form Alamat", JOptionPane.QUESTION_MESSAGE);

            if(alamat.isEmpty()) {
                JOptionPane.showMessageDialog(null, "Field Form Alamat tidak boleh kosong!", WARN, JOptionPane.WARNING_MESSAGE);
            } else if(alamat.length() < 10) {
                JOptionPane.showMessageDialog(null, "Masukkan alamat minimum 10 karakter!", WARN, JOptionPane.WARNING_MESSAGE);
            }

            int pUsia = Integer.parseInt(usia);
```



```java
import javax.swing.JOptionPane;

public class Latihan04 {

    public static void main(String[] args) {
        Biodata bio = new Biodata();

        JOptionPane.showMessageDialog(null, "Selamat Datang!");
        final String WARN = "PERINGATAN!";
        boolean isLanjut = true;

        while(isLanjut) {
            String nama = JOptionPane.showInputDialog(null, "Masukkan nama lengkap Anda:", "Form Nama", JOptionPane.QUESTION_MESSAGE);

            if(nama.isEmpty()) {
                JOptionPane.showMessageDialog(null, "Field Form Nama tidak boleh kosong!", WARN, JOptionPane.WARNING_MESSAGE);
                System.exit(0);
            }


            String usia = JOptionPane.showInputDialog(null, "Masukkan usia Anda:", "Form Usia", JOptionPane.QUESTION_MESSAGE);
            final String REG_NUMERIK = "[0-9]+";

            if(usia.isEmpty()) {
                JOptionPane.showMessageDialog(null, "Field        JOptionPane.WARNING_MESSAGE);
            } else if(!usia.matches(REG_NUMERIK)) {
                JOptionPane.showMessageDialog(null, "Isian              tionPane.WARNING_MESSAGE);
                System.exit(0);
            }


            String alamat = JOptionPane.showInputDialog(null, "Masukkan alamat Anda:", "Form Alamat", JOptionPane.QUESTION_MESSAGE);

            if(alamat.isEmpty()) {
                JOptionPane.showMessageDialog(null, "Field Form Alamat tidak boleh kosong!", WARN, JOptionPane.WARNING_MESSAGE);
            } else if(alamat.length() < 10) {
                JOptionPane.showMessageDialog(null, "Masukkan alamat minimum 10 karakter!", WARN, JOptionPane.WARNING_MESSAGE);
            }

            int pUsia = Integer.parseInt(usia);
```

Top editor tabs: Biodata.java | Latihan02.java | Latihan03.java | Latihan04.java

```java
import javax.swing.JOptionPane;

public class Latihan04 {

    public static void main(String[] args) {
        Biodata bio = new Biodata();

        JOptionPane.showMessageDialog(null, "Selamat Datang!");
        final String WARN = "PERINGATAN!";
        boolean isLanjut = true;

        while(isLanjut) {
            String nama = JOptionPane.showInputDialog(null, "Masukkan nama lengkap Anda:", "Form Nama", JOptionPane.QUESTION_MESSAGE);

            if(nama.isEmpty()) {
                JOptionPane.showMessageDialog(null, "Field Form Nama tidak boleh kosong!", WARN, JOptionPane.WARNING_MESSAGE);
                System.exit(0);
            }


            String usia = JOptionPane.showInputDialog(null, "Masukkan usia Anda:", "Form Usia", JOptionPane.QUESTION_MESSAGE);
            final String REG_NUMERIK = "[0-9]+";

            if(usia.isEmpty()) {
                JOptionPane.showMessageDialog(null, "Field ...", ..., JOptionPane.WARNING_MESSAGE);
            } else if(!usia.matches(REG_NUMERIK)) {
                JOptionPane.showMessageDialog(null, "Isian ...", ..., JOptionPane.WARNING_MESSAGE);
                System.exit(0);
            }


            String alamat = JOptionPane.showInputDialog(null, "Masukkan alamat Anda:", "Form Alamat", JOptionPane.QUESTION_MESSAGE);

            if(alamat.isEmpty()) {
                JOptionPane.showMessageDialog(null, "Field Form Alamat tidak boleh kosong!", WARN, JOptionPane.WARNING_MESSAGE);
            } else if(alamat.length() < 10) {
                JOptionPane.showMessageDialog(null, "Masukkan alamat minimum 10 karakter!", WARN, JOptionPane.WARNING_MESSAGE);
            }

            int pUsia = Integer.parseInt(usia);
```
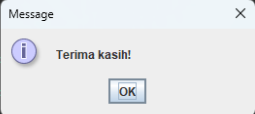
Dialog (top): Form Alamat — Masukkan alamat Anda: [Kedung Halang, Bogor Utara] OK Cancel

Dialog (bottom): Keluar? — Apakah Anda ingin keluar? Yes No

Jika pilih Yes

```java
import javax.swing.JOptionPane;

public class Latihan04 {

    public static void main(String[] args) {
        Biodata bio = new Biodata();

        JOptionPane.showMessageDialog(null, "Selamat Datang!");
        final String WARN = "PERINGATAN!";
        boolean isLanjut = true;

        while(isLanjut) {
            String nama = JOptionPane.showInputDialog(null, "Masukkan nama lengkap Anda:", "Form Nama", JOptionPane.QUESTION_MESSAGE);

            if(nama.isEmpty()) {
                JOptionPane.showMessageDialog(null, "Field Form Nama tidak boleh kosong!", WARN, JOptionPane.WARNING_MESSAGE);
                System.exit(0);
            }


            String usia = JOptionPane.showInputDialog(null, "Masukkan usia Anda:", "Form Usia", JOptionPane.QUESTION_MESSAGE);
            final String REG_NUMERIK = "[0-9]+";

            if(usia.isEmpty()) {
                JOptionPane.showMessageDialog(null, "Field Fo              RN, JOptionPane.WARNING_MESSAGE);
            } else if(!usia.matches(REG_NUMERIK)) {
                JOptionPane.showMessageDialog(null, "Isian Fo              ptionPane.WARNING_MESSAGE);
                System.exit(0);
            }


            String alamat = JOptionPane.showInputDialog(null, "Masukkan alamat Anda:", "Form Alamat", JOptionPane.QUESTION_MESSAGE);

            if(alamat.isEmpty()) {
                JOptionPane.showMessageDialog(null, "Field Form Alamat tidak boleh kosong!", WARN, JOptionPane.WARNING_MESSAGE);
            } else if(alamat.length() < 10) {
                JOptionPane.showMessageDialog(null, "Masukkan alamat minimum 10 karakter!", WARN, JOptionPane.WARNING_MESSAGE);
            }

            int pUsia = Integer.parseInt(usia);
```

Message — Terima kasih! OK

Jika pilih No, maka kembali ke isian form Fullname

```java
import javax.swing.JOptionPane;

public class Latihan04 {

    public static void main(String[] args) {
        Biodata bio = new Biodata();

        JOptionPane.showMessageDialog(null, "Selamat Datang!");
        final String WARN = "PERINGATAN!";
        boolean isLanjut = true;

        while(isLanjut) {
            String nama = JOptionPane.showInputDialog(null, "Masukkan nama lengkap Anda:", "Form Nama", JOptionPane.QUESTION_MESSAGE);

            if(nama.isEmpty()) {
                JOptionPane.showMessageDialog(null, "Field Form Nama tidak boleh kosong!", WARN, JOptionPane.WARNING_MESSAGE);
                System.exit(0);
            }


            String usia = JOptionPane.showInputDialog(null, "Masukkan usia Anda:", "Form Usia", JOptionPane.QUESTION_MESSAGE);
            final String REG_NUMERIK = "[0-9]+";

            if(usia.isEmpty()) {
                JOptionPane.showMessageDialog(null, "Field              JOptionPane.WARNING_MESSAGE);
            } else if(!usia.matches(REG_NUMERIK)) {
                JOptionPane.showMessageDialog(null, "Isian              ionPane.WARNING_MESSAGE);
                System.exit(0);
            }


            String alamat = JOptionPane.showInputDialog(null, "Masukkan alamat Anda:", "Form Alamat", JOptionPane.QUESTION_MESSAGE);

            if(alamat.isEmpty()) {
                JOptionPane.showMessageDialog(null, "Field Form Alamat tidak boleh kosong!", WARN, JOptionPane.WARNING_MESSAGE);
            } else if(alamat.length() < 10) {
                JOptionPane.showMessageDialog(null, "Masukkan alamat minimum 10 karakter!", WARN, JOptionPane.WARNING_MESSAGE);
            }

            int pUsia = Integer.parseInt(usia);
```

Form Nama — Masukkan nama lengkap Anda: OK Cancel