



# ARRAY

<http://www.brigidaarie.com>

# Konsep Array

- Array dalam bahasa Indonesia adalah indeks, maka variabel array adalah variabel yang mempunyai indeks. Sehingga penulisannya adalah ***var(indeks)***.
- Contoh :
  - {3, 6, 8, 7, 5, 1}
  - x(1), x(2), x(3), x(4), x(5) dan x(6).

# Deklarasi Array

```
Dim nama_variabel(jumlah_array) as Tipe_Data
```

```
Dim bilangan(10) as integer
```

```
Bilangan(4) = 100
```

```
Bilangan(12) = 8
```

# Latihan Array

The image shows a Java Swing window titled "Array Nama". The window has a standard title bar with minimize, maximize, and close buttons. Inside the window, there is a label "Nama" followed by an empty text input field. To the right of the input field is a button labeled "SIMPAN". Below the input field is a list box containing three names: "Brigida", "Arie", and "Minartiningtyas". To the right of the list box is a button labeled "TAMPIL". The "TAMPIL" button has a dashed border, indicating it is disabled.

# Satu Variabel Array

The screenshot shows a Windows application window titled "Array Nama". It features a text input field labeled "Nama" with a "SIMPAN" button to its right. Below the input field is a list box containing the names "Brigida", "Arie", and "Minartiningtyas". To the right of the list box is a "TAMPIL" button. The window has standard Windows window controls (minimize, maximize, close) in the title bar.

```
Dim nama(20) As String
Dim n As Integer

Private Sub Command1_Click()
    n = n + 1
    nama(n) = Trim(txtnama.Text)
    txtnama.Text = ""
    txtnama.SetFocus
End Sub
```

```
Private Sub Command2_Click()
    List1.Clear
    For i = 1 To n
        List1.AddItem nama(i)
    Next i
End Sub
```

```
Private Sub Form_Load()
    n = 0
End Sub
```

# Dua Array

The image shows a Java Swing window titled "Array". It contains two input fields: "Nama" and "Nilai". To the right of the "Nama" field is a button labeled "SIMPAN". To the right of the "Nilai" field is a button labeled "TAMPIL" with a dashed border. Below these fields is a text area containing the following text:

```
Brigida Nilai = 100  
Arie Nilai = 90  
Minartiningtyas Nilai = 80
```

# Dua Variabel Array

Array

Nama  SIMPAN

Nilai  TAMPIL

Brigida Nilai = 100  
Arie Nilai = 90  
Minartiningtyas Nilai = 80

```
Private Sub Command1_Click()  
n = n + 1  
nama(n) = Trim(Text1.Text)  
nilai(n) = Val(Text2.Text)  
Text1.Text = ""  
Text2.Text = ""  
Text1.SetFocus  
End Sub
```

```
Private Sub Command2_Click()  
List1.Clear  
For i = 1 To n  
List1.AddItem nama(i) & " Nilai = " & nilai(i)  
Next i  
End Sub
```

```
Private Sub Form_Load()  
n = 0  
End Sub
```

Array

Nama

SIMPAN

Nilai

TAMPIL

Agyska Nilai = 30  
Martha Nilai = 45  
Ermon Nilai = 70  
Dwikaputra Nilai = 80  
Nilai Rata-Rata = 56.25  
Nilai Maksimum = 80  
Nilai Minimum = 30



```
Dim nama(20) As String
Dim nilai(20) As Integer
Dim n, jumlah, maks, min As Integer
Dim rata As Single
```

---

```
Private Sub Command1_Click()
n = n + 1
nama(n) = Trim(Text1.Text)
nilai(n) = Val(Text2.Text)
Text1.Text = ""
Text2.Text = ""
Text1.SetFocus
End Sub
```

---

```
Private Sub Command2_Click()
List1.Clear
jumlah = 0
maks = nilai(1)
min = nilai(1)
For i = 1 To n
If nilai(i) > maks Then
    maks = nilai(i)
Else
    min = nilai(i)
End If
List1.AddItem nama(i) & " Nilai = " & nilai(i)
jumlah = jumlah + nilai(i)
Next i
rata = jumlah / n
List1.AddItem "Nilai Rata-Rata = " & rata
List1.AddItem "Nilai Maksimum = " & maks
List1.AddItem "Nilai Minimum = " & min
End Sub
```

---

```
Private Sub Form_Load()
n = 0
End Sub
```