

For updated version, please click on  
<http://ocw.ump.edu.my>

# COMPUTER PROGRAMMING

## FUNCTIONS - Exercise

by  
LIM KAR SING

FACULTY OF CIVIL ENGINEERING & EARTH RESOURCES  
UNIVERSITI MALAYSIA PAHANG

[limks@ump.edu.my](mailto:limks@ump.edu.my)

# Exercise 25 – Function (Form)

The image shows a Windows form window titled "Form1". The form contains the following elements:

- A label "Temperature (Fahrenheit):" followed by a text box. An arrow points from the label **txtTemF** to this text box.
- A button labeled "Go" centered below the first text box.
- A label "Temperature Celcius):" followed by a text box. An arrow points from the label **txtTemC** to this text box.

The form has a standard Windows window border with minimize, maximize, and close buttons in the title bar.

# Exercise 25 – Function (Code)

```
Private Sub btnGo_Click(ByVal sender As  
System.Object, ByVal e As System.EventArgs) Handles  
btnGo.Click
```

```
    Dim fahrenheitTemp, celsiusTemp As Double  
    fahrenheitTemp = CDb1(txtTemF.Text)  
    celsiusTemp = FtoC(fahrenheitTemp)  
    txtTemC.Text = CStr(celsiusTemp)
```

```
End Sub
```

```
Function FtoC(ByVal t As Double) As Double  
    Return (5 / 9) * (t - 32)  
End Function
```

# Exercise 25 – Function (Output)

Form1

Temperature (Fahrenheit):

Temperature Celcius):

# Exercise 26 – Function Having Several Parameters (Form)

The image shows a Windows form titled "Form1" with a standard title bar containing minimize, maximize, and close buttons. The form contains the following elements:

- A text label "Hourly Wages" followed by a text box.
- A text label "Hours Worked" followed by a text box.
- A button labeled "Calculate Salary".
- A text label "Total Salary" followed by a text box.

Three arrows point from labels on the right to the text boxes:

- An arrow labeled **txtWage** points to the "Hourly Wages" text box.
- An arrow labeled **txtHours** points to the "Hours Worked" text box.
- An arrow labeled **txtSalary** points to the "Total Salary" text box.

# Exercise 26 – Function Having Several Parameters (Code)

```
Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button1.Click
```

```
    Dim hourlyWage, hoursWorked As Decimal
```

```
    hourlyWage = CDec(txtWage.Text)
```

```
    hoursWorked = CDec(txtHours.Text)
```

```
    txtSalary.Text = (Pay(hourlyWage, hoursWorked))
```

```
End Sub
```

```
Function Pay(ByVal wage As Decimal, ByVal hrs As Decimal) As Decimal
```

```
    Dim amt As Decimal 'amount of salary
```

```
    Select Case hrs
```

```
        Case Is <= 40
```

```
            amt = wage * hrs
```

```
        Case Is > 40
```

```
            amt = (wage * 40) + (1.5D * wage * (hrs - 40))
```

```
    End Select
```

```
    Return amt
```

```
End Function
```

# Exercise 26 – Function Having Several Parameters (Output)

Form1

Hourly Wages

Hours Worked

**Calculate Salary**

Total Salary

**No overtime work**

Form1

Hourly Wages

Hours Worked

**Calculate Salary**

Total Salary

**Overtime work**