Lecture Notes – Session 10 – IS201
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Procedure, Comment, Variable

```
Option Explicit

Sub InputOutput()
    'Define variables
    Dim Width As Double
    Dim Height As Double
    Dim Area As Double

    'Read in Length and Width
    Width = InputBox("Enter Width")
    Height = InputBox("Enter Height")

    'Calculate the Area
    Area = Length * Width

    'Print the result (convert Area to String for Printing)
    MsgBox "Area is " + Str(Area)
End Sub
```

Function

```
Public Function CalcArea(Height As Double, Width As Double) As Double
    CalcArea = Height * Width
End Function
```

- Side effects of functions, MsgBox, Set Cell
  - Cell setting not allowed when used within a cell
  - Demonstrate

Conditionals

```
Sub Doctor()
    Dim complaint As String
    complaint = InputBox("What is your complaint?", "Doctor")
    MsgBox GetTreatment (complaint)
End Sub
```

```
Public Function GetTreatment(symptom As String) As String
   If symptom = "Hay Fever" Then
      GetTreatment = "Take some allergy medicine."
   ElseIf symptom = "Sore Throat" Then
      GetTreatment = "Gargle salt water."
   Else
      GetTreatment = "Go see a real doctor."
   End If
End Function
```

Select Case

```
Public Function GetTreatment(symptom As String) As String
   Select Case symptom
      Case "Hay Fever": GetTreatment = "Take some allergy medicine."
      Case "Sore Throat": GetTreatment = "Gargle salt water."
      Case Else: GetTreatment = "Go see a real doctor."
   End Select
End Function
```