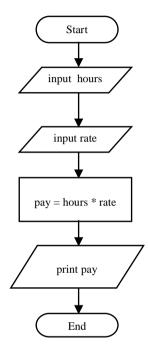
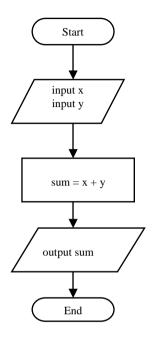
# Introductory Examples of Flowcharts and Pseudocode Chapter 3

# Calculate Pay - sequence



Begin
input hours
input rate
pay = hours \* rate
print pay
End

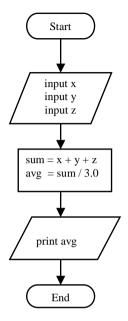
### Sum of 2 Numbers - sequence



 $\begin{aligned} & Begin \\ & input \ x, \ y \\ & sum \ = \ x + y \\ & print \ sum \end{aligned}$  End

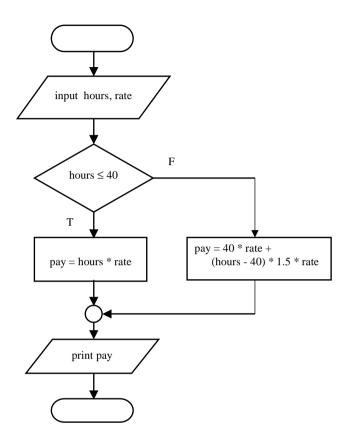
2

# Average of 3 Numbers - sequence



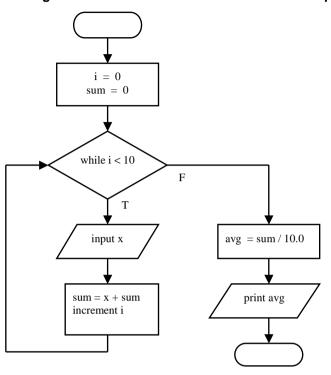
# Begin input x input y input z sum = x + y + z avg = sum / 3.0 print avg End

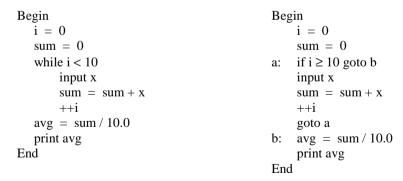
### **Calculate Pay with Overtime - selection**



```
Begin input hours, rate if hours \leq 40 then pay = hours * rate else pay = 40 * rate + (hours - 40) * rate * 1.5 print pay
```

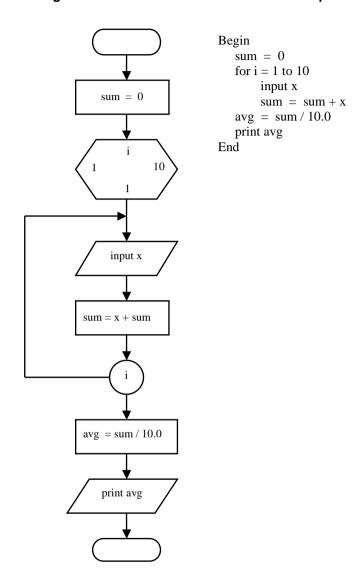
### Average of 10 Numbers – iteration with a while loop



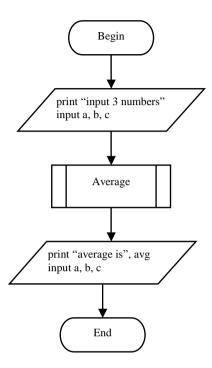


**Comment** Strictly speaking, the above flowchart corresponds more to the pseudocode on the right hand side. However, as you can see, 'gotos' make code less modular and more unreadable.

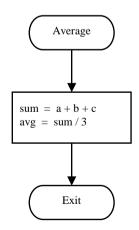
### Average of 10 Numbers – iteration with a for loop



### Flowchart for Function or Subroutine Module



```
Begin
print "Input 3 numbers:"
input a, b, c
avg = average(a, b, c)
print "Average is ", avg
End
```



Begin Average(a, b, c) sum = a + b + c avg = sum / 3.0 return avgEnd