# Form1

## Class:

Declare member variables:

* baseDatetime As Date
* zones As Hashtable
* culture As CultureInfo

## When form is loaded:

zones := New Hashtable  
culture := New CultureInfo(“en-GB”)  
clear tz\_list  
for each TimeZoneInfo object tz in (collection returned by) TimeZoneInfo.GetSystemTimeZones():  
 add node to tz\_list (key: tz.DisplayName, value: tz.DisplayName)  
 add entry to zones (key: tz.DisplayName, value: tz)  
end for  
set selection for tz\_list to "(UTC) Dublin, Edinburgh, Lisbon, London"

## When timer ticks (= every 1s)

baseDatetime := Date.UtcNow  
converted := TimeZoneInfo.ConvertTimeFromUtc(baseDatetime, member of zones matching current selection of tz\_list)  
if check\_24h.Checked = True:  
 lbl\_TimeDisplay.Text := converted.ToString(format: “Hours (out of 24):Minutes:Seconds”)  
else:  
 lbl\_TimeDisplay.Text := converted.ToString(format: “Hours (out of 12):Minutes:Seconds (am/pm)”)  
end if  
AnalogueClock1.SetTime(converted)

# AnalogueClock

## Class:

Declare member variables:

* dateTime As Date

## Control drawing:

(A bunch of code which draws the analogue clock)

## Public Sub SetTime (ByRef dt As Date):

dateTime := dt  
invalidate\_and\_redraw()