Full Source
Programming Language: Just BASIC

```
newline$ = chr$(13) + chr$(10)
PrinterFont$ = "courier_new 10"

[input]
    input "Please enter length of year (earth days): "; year 'length of year in earth days
    input "Length of day (earth hours): "; day 'length of day in earth hours
    input "Number of months: "; months 'number of months in year
    months = int(months)
    for i = 1 to months
        input "Name of month " + str$(i) + ": "; name$
        names$ = names$ + name$ + " "
    next i
    input "Days per week (planet days): "; weeks 'length of week in planet days
    day = day/24 'length of day from earth hours to earth days
    numOfDays = year/day 'days per year
    lenMonths = int(numOfDays/months) 'days per month
    unaccountedDays = numOfDays - (months * lenMonths)
    backup1 = unaccountedDays
    leftoverTime = unaccountedDays - int(unaccountedDays)
    if (unaccountedDays <> 0) then
        print "Months will have unequal lengths."
    end if
    if (leftoverTime <> 0) then
        print "Leap year will be created."
        leapYear = 1
    end if
    i = 0

[calender.generation]
    i = i + 1
    currDay = 0
    currMonthExtraDays = 0
    if (unaccountedDays >= 1) then
        currMonthExtraDays = 1
        unaccountedDays = unaccountedDays - currMonthExtraDays
    end if
    calender$ = calender$ + "Month: " + word$(names$, i) + newline$
    while (currDay < lenMonths + currMonthExtraDays)
        currDay = currDay + 1
        calender$ = calender$ + " " + str$(currDay)
        if (currDay mod weeks < 1) then
            calender$ = calender$ + newline$
        end if
    wend
    calender$ = calender$ + newline$ + newline$ + newline$
    if (i < months) then
        goto [calender.generation]
    end if
    if (leapYear = 0) then
        print calender$
        print
        input "Would you like to print this calender? (y/n) " ; print$
        if (print$ = "y") then
            lprint calender$
            dump
        end if
        goto [input]
    end if

[leapYear]
    i = 0
    tmp = .1
    while (tmp <> int(tmp))
        i = i + 1
        tmp = leftoverTime * i
    wend
    calender$ = calender$ + "Leap year: every " + str$(i) + " years" + newline$
```

```
    i = 0
    unaccountedDays = backup1
    unaccountedDays = unaccountedDays + tmp

[lyCal]
    i = i + 1
    currDay = 0
    currMonthExtraDays = 0
    if (unaccountedDays >= 1) then
        currMonthExtraDays = 1
        unaccountedDays = unaccountedDays - currMonthExtraDays
    end if
    calender$ = calender$ + "Month: " + word$(names$, i) + newline$
    while (currDay < lenMonths + currMonthExtraDays)
        currDay = currDay + 1
        calender$ = calender$ + " " + str$(currDay)
        if (currDay mod weeks < 1) then
            calender$ = calender$ + newline$
        end if
    wend
    calender$ = calender$ + newline$ + newline$ + newline$
    if (i < months) then
        goto [lyCal]
    end if
    print calender$
    input "Would you like to print this calender? (y/n) " ; print$
    if (print$ = "y") then
        lprint calender$
        dump
    end if
    goto [input]
```


```
newline$ = chr$(13) + chr$(10)
PrinterFont$ = "courier_new 10"

    nomainwin 'uncomment this line only when the program is stable
    'input "Please enter length of year (earth days): "; year 'length of year in earth days
    'input "Length of day (earth hours): "; day 'length of day in earth hours
    'input "Number of months: "; months 'number of months in year

    WindowWidth = 424
    WindowHeight = 660

    statictext #calendar, "Length of year (earth days):", 30, 21, 168, 20
    textbox #calendar.day, 222, 51, 100, 25
    statictext #calendar, "Length of day (earth hours):", 30, 56, 168, 25
    textbox #calendar.year, 222, 16, 100, 25
    statictext #calendar, "Number of months:", 30, 91, 136, 20
    textbox #calendar.months, 222, 86, 100, 25
    statictext #calendar, "Days per week (planet days):", 30, 126, 184, 20
    textbox #calendar.weeks, 222, 121, 100, 25
    texteditor #calendar.monthNames, 30, 211, 360, 115
    statictext #calendar, "Names of each month (separated by newlines):", 78, 171, 288, 25
    statictext #calendar, "Genarated calendar:", 142, 346, 152, 20
    texteditor #calendar.genCal, 30, 371, 360, 135
    button #calendar.calculate, "Calculate", [calender.calculate], UL, 166, 556, 80, 25
    open "Calendar for any planet" for window as #calendar
    print #calendar, "font ms_sans_serif 0 16"
    print #calendar, "trapclose [quit]"

    wait


[calender.calculate]   'Perform action for the button named 'calculate'
    print #calendar.year, "!contents? yearStr$"
    print #calendar.day, "!contents? dayStr$"
    print #calendar.months, "!contents? monthsStr$"
    months = int(val(monthsStr$))
    for i = 1 to months
        print #calendar.monthNames, "!line " ; i ; _
        " name$"
        names$ = names$ + name$ + " "
    next i
    'input "Days per week (planet days): "; weeks 'length of week in planet days
    print #calendar.weeks, "!contents? weeksStr$"
    weeks = val(weeksStr$)
    day = val(dayStr$)
    year = val(yearStr$)
    day = day/24 'length of day from earth hours to earth days
    numOfDays = year/day 'days per year
    lenMonths = int(numOfDays/months) 'days per month
    unaccountedDays = numOfDays - (months * lenMonths)
    backup1 = unaccountedDays
    leftoverTime = unaccountedDays - int(unaccountedDays)
    if (unaccountedDays <> 0) then
        'print "Months will have unequal lengths."
        notice "Months will have unequal lengths."
    end if
    if (leftoverTime <> 0) then
        'print "Leap year will be created."
        notice "Leap year will be created."
        leapYear = 1
    end if
    i = 0
```

```
[calendar.generation]
    i = i + 1
    currDay = 0
    currMonthExtraDays = 0
    if (unaccountedDays >= 1) then
        currMonthExtraDays = 1
        unaccountedDays = unaccountedDays - currMonthExtraDays
    end if
    calendar$ = calendar$ + "Month: " + word$(names$, i) + newline$
    while (currDay < lenMonths + currMonthExtraDays)
        currDay = currDay + 1
        calendar$ = calendar$ + " " + str$(currDay)
        if (currDay mod weeks < 1) then
            calendar$ = calendar$ + newline$
        end if
    wend
    calendar$ = calendar$ + newline$ + newline$ + newline$
    if (i < months) then
        goto [calendar.generation]
    end if
    if (leapYear = 0) then
        'print calendar$
        'print
        print #calendar.genCal, "!contents calendar$"
        'input "Would you like to print this calendar? (y/n) " ; print$
        confirm "Would you like to print this calendar?"; print$
        if (print$ = "yes") then
            lprint calendar$
            dump
        end if
        'goto [input]
        wait 'for input
    end if

[leapYear]
    i = 0
    tmp = .1
    while (tmp <> int(tmp))
        i = i + 1
        tmp = leftoverTime * i
        scan 'do not delete this line
    wend
    calendar$ = calendar$ + "Leap year: every " + str$(i) + " years" + newline$
    i = 0
    unaccountedDays = backup1
    unaccountedDays = unaccountedDays + tmp

[lyCal]
    i = i + 1
    currDay = 0
    currMonthExtraDays = 0
    if (unaccountedDays >= 1) then
        currMonthExtraDays = 1
        unaccountedDays = unaccountedDays - currMonthExtraDays
    end if
    calendar$ = calendar$ + "Month: " + word$(names$, i) + newline$
    while (currDay < lenMonths + currMonthExtraDays)
        currDay = currDay + 1
        calendar$ = calendar$ + " " + str$(currDay)
        if (currDay mod weeks < 1) then
            calendar$ = calendar$ + newline$
        end if
    wend
    calendar$ = calendar$ + newline$ + newline$ + newline$
    if (i < months) then
        goto [lyCal]
    end if
```

```
    'print calendar$
    print #calendar.genCal, "!contents calendar$"
    'input "Would you like to print this calender? (y/n) " ; print$
    confirm "Would you like to print this calendar?"; print$
    if (print$ = "yes") then
        lprint calendar$
        dump
    end if
    'goto [input]
    wait 'for input

[quit]
    close #calendar
    end
```

Earth Calender

Months: 12
Length of Day: 24 hrs.
Days per year: 365.25
Days per week: 7

Month: [illegible]
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31

Month: [illegible]
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31

Month:
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31

Month:
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
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1 2 3 4 5 6 7
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1 2 3 4 5 6 7
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15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30

Month:
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30

Month:
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30

Month:
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30

Month:
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30

Month:
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30

Total 365 days

Leap year: every 4 years

Month:
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31

Month:
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31

Month:
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31

Month:
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28

29 30 31

Month:
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31

Month:
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31

Month:
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30

Month:
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30

Month:
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30

Month:
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30

Month:
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21

22 23 24 25 26 27 28
29 30

Total 366 days