

Calendar Module

- The methods of **calendar module** are

```
class calendar.LocaleTextCalendar(firstweekday=0, locale=None)
class calendar.LocaleHTMLCalendar(firstweekday=0, locale=None)
calendar.setfirstweekday(weekday)
calendar.firstweekday()
calendar.isleap(year)
calendar.leapdays(y1, y2)
calendar.weekday(year, month, day)
calendar.weekheader(n)
calendar.monthrange(year, month)
calendar.monthcalendar(year, month)
calendar.prmonth(theyear, themonth, w=0, l=0)
calendar.month(theyear, themonth, w=0, l=0)
calendar.timegm(tuple)
```

```
>>> from calendar import *
>>> firstweekday()
0
>>> isleap(2024)
True
>>> leapdays(2000,2022)
6
>>> weekday(2000,1,1)
5
>>> weekday(2022,3,16)
2
>>> prmonth(2022,3)
  March 2022
Mo Tu We Th Fr Sa Su
 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
```

- The **class calendar** methods are

```
class calendar.Calendar(firstweekday=0)  
    iterweekdays()
```

```
>>> from calendar import *  
>>> c = Calendar()  
>>> c  
<calendar.Calendar object at 0x7f79b052e8b0>  
>>> for i in c.iterweekdays():  
    print(i)
```

```
0  
1  
2  
3  
4  
5  
6
```

```
>>> for i in c.itermonthdates(2022,2):  
    print(i)
```

```
2022-01-31  
2022-02-01  
2022-02-02  
2022-02-03  
2022-02-04  
2022-02-05  
2022-02-06  
2022-02-07  
2022-02-08  
2022-02-09  
2022-02-10  
2022-02-11  
2022-02-12  
2022-02-13  
2022-02-14  
2022-02-15  
2022-02-16  
2022-02-17  
2022-02-18  
2022-02-19  
2022-02-20  
2022-02-21
```

```
>>> c.monthdatescalendar(2022,3)  
[[datetime.date(2022, 2, 28), datetime.date(2022, 3, 1), datetime.date(2022, 3, 2), datetime.date(2022, 3, 3), datetime.date(2022, 3, 4), datetime.date(2022, 3, 5), datetime.date(2022, 3, 6)], [datetime.date(2022, 3, 7), datetime.date(2022, 3, 8), datetime.date(2022, 3, 9), datetime.date(2022, 3, 10), datetime.date(2022, 3, 11), datetime.date(2022, 3, 12), datetime.date(2022, 3, 13)], [datetime.date(2022, 3, 14), datetime.date(2022, 3, 15), datetime.date(2022, 3, 16), datetime.date(2022, 3, 17), datetime.date(2022, 3, 18), datetime.date(2022, 3, 19), datetime.date(2022, 3, 20)], [datetime.date(2022, 3, 21), datetime.date(2022, 3, 22), datetime.date(2022, 3, 23), datetime.date(2022, 3, 24), datetime.date(2022, 3, 25), datetime.date(2022, 3, 26), datetime.date(2022, 3, 27)], [datetime.date(2022, 3, 28), datetime.date(2022, 3, 29), datetime.date(2022, 3, 30), datetime.date(2022, 3, 31), datetime.date(2022, 4, 1), datetime.date(2022, 4, 2), datetime.date(2022, 4, 3)]]
```

Text calendar

```
class calendar.TextCalendar(firstweekday=0)

    formatmonth(theyear, themonth, w=0, l=0)
    prmonth(theyear, themonth, w=0, l=0)
    formatyear(theyear, w=2, l=1, c=6, m=3)
    pryear(theyear, w=2, l=1, c=6, m=3)
```

```
>>> c.pyear(2022)
2022
```

I

```
January      February      March
Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su
      1 2      1 2 3 4 5 6      1 2 3 4 5 6
3 4 5 6 7 8 9  7 8 9 10 11 12 13  7 8 9 10 11 12 13
10 11 12 13 14 15 16 14 15 16 17 18 19 20 14 15 16 17 18 19 20
17 18 19 20 21 22 23 21 22 23 24 25 26 27 21 22 23 24 25 26 27
24 25 26 27 28 29 30 28      28 29 30 31
31
```

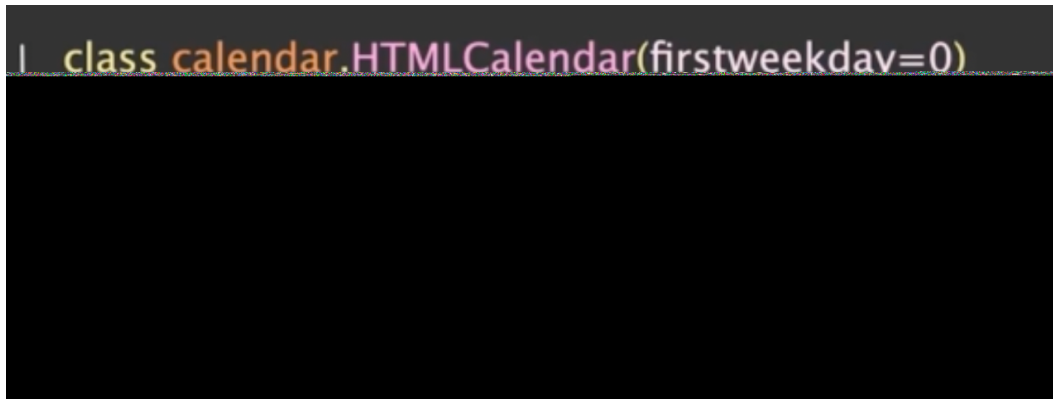
```
April      May      June
Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su
      1 2 3      1      1 2 3 4 5
4 5 6 7 8 9 10  2 3 4 5 6 7 8  6 7 8 9 10 11 12
11 12 13 14 15 16 17  9 10 11 12 13 14 15 13 14 15 16 17 18 19
18 19 20 21 22 23 24 16 17 18 19 20 21 22 20 21 22 23 24 25 26
```

```
>>> c.formatmonth(2022,3)
' March 2022\nMo Tu We Th Fr Sa Su\n  1 2 3 4 5 6\n 7 8 9 10 11 12 13\n14 15 16 17 18 19 20\n21 22 23 24 25 26 27\n28 29 30 31\n'
```

```
>>> for i in c.formatmonth(2022,3).split("\n"):
    print(i)
```

```
March 2022
Mo Tu We Th Fr Sa Su
  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
```

- **HTML calendar** : it gives Information in html , used mostly in web development



```
>>> c = HTMLCalendar()
>>> c.formatmonth(2022,3)
'<table border="0" cellpadding="0" cellspacing="0" class="month">\n<tr><th colspan="7" class="month">March 2022</th></tr>\n<tr><th class="mon">Mon</th><th class="tue">Tue</th><th class="wed">Wed</th><th class="thu">Thu</th><th class="fri">Fri</th><th class="sat">Sat</th><th class="sun">Sun</th></tr>\n<tr><td class="noday">&nbsp;</td><td class="tue">1</td><td class="wed">2</td><td class="thu">3</td><td class="fri">4</td><td class="sat">5</td><td class="sun">6</td></tr>\n<tr><td class="mon">7</td><td class="tue">8</td><td class="wed">9</td><td class="thu">10</td><td class="fri">11</td><td class="sat">12</td><td class="sun">13</td></tr>\n<tr><td class="mon">14</td><td class="tue">15</td><td class="wed">16</td><td class="thu">17</td><td class="fri">18</td><td class="sat">19</td><td class="sun">20</td></tr>\n<tr><td class="mon">21</td><td class="tue">22</td><td class="wed">23</td><td class="thu">24</td><td class="fri">25</td><td class="sat">26</td><td class="sun">27</td></tr>\n<tr><td class="mon">28</td><td class="tue">29</td><td class="wed">30</td><td class="thu">31</td><td class="noday">&nbsp;</td><td class="noday">&nbsp;</td><td class="noday">&nbsp;</td></tr>\n</table>\n'
>>>
```