ch.12

October 12, 2020

1 Ch. 12: Modules

[18]:
```
#Ch. 12: Exercices
```

#Ex. 1 Calendar Module

[19]:
```
from unit_tester import test
import calendar
cal = calendar.TextCalendar(firstweekday = 0) # Create an instance
cal.prmonth(2020, 12)

#help(calendar)

d = calendar.LocaleTextCalendar(6, "GERMAN")
d.pryear(2012)

print(calendar.isleap(2024))
```

```
   December 2020
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
```

```
                                  2012

       Januar                    Februar                    März
So Mo Di Mi Do Fr Sa      So Mo Di Mi Do Fr Sa      So Mo Di Mi Do Fr Sa
 1  2  3  4  5  6  7                1  2  3  4                1  2  3
 8  9 10 11 12 13 14       5  6  7  8  9 10 11       4  5  6  7  8  9 10
15 16 17 18 19 20 21      12 13 14 15 16 17 18      11 12 13 14 15 16 17
22 23 24 25 26 27 28      19 20 21 22 23 24 25      18 19 20 21 22 23 24
29 30 31                  26 27 28 29               25 26 27 28 29 30 31

       April                     Mai                       Juni
So Mo Di Mi Do Fr Sa      So Mo Di Mi Do Fr Sa      So Mo Di Mi Do Fr Sa
 1  2  3  4  5  6  7             1  2  3  4  5                   1  2
```

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

        Juli                    August                  September
So Mo Di Mi Do Fr Sa      So Mo Di Mi Do Fr Sa      So Mo Di Mi Do Fr Sa
 1  2  3  4  5  6  7                1  2  3  4                         1
 8  9 10 11 12 13 14       5  6  7  8  9 10 11       2  3  4  5  6  7  8
15 16 17 18 19 20 21      12 13 14 15 16 17 18       9 10 11 12 13 14 15
22 23 24 25 26 27 28      19 20 21 22 23 24 25      16 17 18 19 20 21 22
29 30 31                  26 27 28 29 30 31         23 24 25 26 27 28 29
                                                    30

      Oktober                   November                  Dezember
So Mo Di Mi Do Fr Sa      So Mo Di Mi Do Fr Sa      So Mo Di Mi Do Fr Sa
    1  2  3  4  5  6                   1  2  3                         1
 7  8  9 10 11 12 13       4  5  6  7  8  9 10       2  3  4  5  6  7  8
14 15 16 17 18 19 20      11 12 13 14 15 16 17       9 10 11 12 13 14 15
21 22 23 24 25 26 27      18 19 20 21 22 23 24      16 17 18 19 20 21 22
28 29 30 31               25 26 27 28 29 30         23 24 25 26 27 28 29
                                                    30 31

True
```

[20]:
```
#Ex. 2 Math Module


#help(math)
#solutions not written
```

[21]:
```
#Ex. 3 Copy Module



from copy import deepcopy
import copy

string = ["florin", "echipa"]
b = deepcopy(string)
c = copy.copy(string)
b[1] = ['gege']
c[1] = ['new']

print(string, b)
print(string, c)
```

```
['florin', 'echipa'] ['florin', ['gege']]
['florin', 'echipa'] ['florin', ['new']]
```

[22]:
```
#Ex. 4: New Modules with same names

import mymodule1
import mymodule2

print( (mymodule2.myage - mymodule1.myage) == (mymodule2.year - mymodule1.year) )
```

```
True
```

[23]:
```
#Ex. 5

print("My name is", __name__)
```

```
My name is __main__
```

[24]:
```
#Ex. 6

import this
```

[25]:
```
#Ex. 7


s = "If we took the bones out, it wouldn't be crunchy, would it?"
s.split()
type(s.split())
s.split("o")
s.split("i")
"O".join(s.split("o"))

#Tests

def myreplace(old, new, s):
    """ Replace all occurrences of old with new in s. """
    return new.join(s.split(old))
```

[26]:
```
test(myreplace(",", ";", "this, that, and some other thing") ==
"this; that; and some other thing")
test(myreplace(" ", "**",
"Words will now be separated by stars.") ==
"Words**will**now**be**separated**by**stars.")
```

```
Test at line 1 ok.
Test at line 3 ok.
```

[ ]:
```

```