

## 0.1 Python test

```
# -*- coding: utf-8 -*-
3 Created on Sat Mar 7 15:09:03 2020
5 @author: anne smal
6 """
7 import random
8 import datetime
10 class Human :
11
      def __init__ (self, name, bd=None) :
12
          self._name = name
13
14
          if bd :
              self._birthday = bd
15
16
          else :
             self._birthday = datetime.date.today()
17
          self._gender = random.choice('MF')
18
19
      @property
20
21
      def name(self):
          return self._name
22
      Oname.setter
23
24
     def name(self, new_name):
25
          self._name = new_name
26
27
28
      @property
      def age(self):
29
          return self._age
30
31
      @age.setter
def age(self, new_age):
```

```
self._age = new_age
33
34
35
36
       @property
       def gender(self):
37
          return self._gender
38
       @gender.setter
39
       def gender(self, new_gender):
40
41
           self._gender = new_gender
42
43
      @property
      def birthday(self):
44
           return self._birthday
45
46
      def say(self, message) :
    print(self._name, ":", message)
47
48
49
50
51
52
53
      @property
      def age(self):
54
55
           today = datetime.datetime.now()
56
           age = today.year - self._birthday.year
57
          if (today.month<self._birthday.month) or (today.month ==</pre>
58
       self._birthday.month and today.day<self._birthday.day):
               age -= 1
59
60
61
          return age
62
63
64 if __name__ == "__main__" :
      bd = datetime.date(2000, 2, 21)
65
66
      bob = Human("Bob",bd)
bob.say("I am " + str(bob.age) + " years old")
```