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"""This is a module for our Person class.
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"""

from datetime import date

class Person:
    """This is a class which represents a person. It is a bit of a silly class.
    It stores some personal information, and can calculate a person's age.
    """

    def __init__(self, name, surname, birthdate, address, telephone, email):
        """This method creates a new person.

        :param name: first name
        :type name: str
        :param surname: surname
        :type surname: str
        :param birthdate: date of birth
        :type birthdate: datetime.date
        :param address: physical address
        :type address: str
        :param telephone: telephone number
        :type telephone: str
        :param email: email address
        :type email: str
        """

        self.name = name
        self.surname = surname
        self.birthdate = birthdate

        self.address = address
        self.telephone = telephone
        self.email = email

    def age(self):
        """This method calculates the person's age from the birthdate and the current date.

        :returns: int -- the person's age in years
        """

        today = date.today()
        age = today.year - self.birthdate.year

        if today < date(today.year, self.birthdate.month, self.birthdate.day):
            age -= 1

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        return age

    def email_domain(self): # voeg de methode argumenten hier (als ze vereist zijn...)
        return self.email.split("@")[1].lower()

    def __str__(self):
        return "Person: " + self.name.capitalize() + " " + self.surname.capitalize() + ", is

person1 = Person("Justin", "Bieber", date.fromisoformat("1986-03-11"), "Brussel Centraal", 4
print(person1.info())

person2 = Person("Nikola", "Tesla", date.fromisoformat("1967-03-11"), "Stad Gent", 496632118
print(person2.info())

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