LU08.L01 - Einseitige Beziehung

house.py

```
class House:
    """
    A house of a certain type

    Attributes
    ----------
    type: String
        The type of the house ('Landhaus', 'Stadthaus', ...)
    """

    def __init__(self, name='Landhaus'):
        """
        Creates the object with the specified type
        """
        self._type = name

    @property
    def type(self):
        """ Returns the type of the house """
        return self._type
```

home_owner.py

```
class HomeOwner:
    """
    The owner of a house.

    Attributes
    ----------
    name: String
        The full name of the homeowner.
    my_house: House
        The house this person owns
    """

    def __init__(self, name, house):
        """
        Creates an object with the name and a reference to the house

        :param name: Full name of the homeowner.
        :param house: Reference to a house.
        """
        self._name = name
```

```
        self._my_house = house

    @property
    def name(self):
        """ Returns the full name. """
        return self._name

    def __str__(self):
        """
        Returns a string with information about the owner and his
house.
        """
        return f'{self._name} besitzt ein {self._my_house.type}'
```

main.py

```
from home_owner import HomeOwner
from house import House


def main():
    house = House('Landhaus')
    owner = HomeOwner('Ron', house)  # Dem owner wird die Referenz zum
Haus mitgegeben.
    print(owner)


if __name__ == '__main__':
    main()
```

M320-LU08

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From:
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Permanent link:
https://wiki.bzz.ch/de/modul/m320_2024/learningunits/lu08/loesungen/einseitigebeziehung

Last update: **2026/08/30 14:05**