

LU13.L02 - Hofladen erweitert

Umsetzung

1. Anpassung Produkt

```
@property  
def article_value(self):  
    return self._price * self._stock
```

2. Funktion definieren

```
def handle_inventory(list):  
    """  
    prints the inventory and the total value  
    :param list: the article list  
    :return: None  
    """  
  
    sum = 0  
    for article in list:  
        sum = sum + article.article_value  
        print(article.name + ' : ' +  
              str(article.article_value))  
    print('\nGesamt : ' + str(sum))
```

3. Programmfluss anpassen

```
if article_name == 'Inventory':  
    handle_inventory(article_list)  
    article_name = input('Artikelname > ')  
    continue  
else:
```

Gesamtlösung

article.py

```
from dataclasses import dataclass

@dataclass
class Article:
    """
    an article in the farmshop
    """
    name: str
    price: float
    stock: int

    @property
    def name(self):
        return self._name

    @name.setter
    def name(self, value):
        self._name = value

    @property
    def price(self):
        return self._price

    @price.setter
    def price(self, value):
        self._price = value

    @property
    def stock(self):
        return self._stock

    @stock.setter
    def stock(self, value):
        self._stock = value

    @property
    def article_value(self):
        return self._price * self._stock

if __name__ == '__main__':
    pass
```

article.py

```

from article import Article

def main():
    article_list = []
    article_name = input('Artikelname > ')
    while article_name != 'Exit':
        if article_name == 'Inventory':
            handle_inventory(article_list)
            article_name = input('Artikelname > ')
            continue
        else:
            article = find_article(article_list,
article_name)

            if article is None:
                article = Article(article_name, 0.0, 0)
                article_list.append(article)
                article.price = input_float('Preis
> ')
            else:
                print('Bestand      : ' +
str(article.stock))

                amount = input_float('Menge      > ')
                article.stock = (article.stock + amount)
                article_name = input('Artikelname > ')

    return article_list

def handle_inventory(list):
    """
    prints the inventory and the total value
    :param list: the article list
    :return: None
    """

    sum = 0
    for article in list:
        sum = sum + article.article_value
        print(article.name + ' : ' +
str(article.article_value))
    print('Gesamt : ' + str(sum))

def input_int(prompt):
    """
    reads an integer input from the user
    :param text: the prompt to be shown

```

```
:return: the integer number
"""
number = None
while number is None:
    try:
        number = int(input(prompt))
    except ValueError:
        print("Please, enter a whole number!")
        continue
return number

def input_float(prompt):
"""
reads a decimal number input from the user
:param text: the prompt to be shown
:return: the decimal number
"""
number = None
while number is None:
    try:
        number = float(input(prompt))
    except ValueError:
        print("Please, enter a real number!")
        continue
return number

def find_article(list, name):
"""
finds an article in the article list
:param list: the article list
:param name: the article name to be found
:return: article or None=not found
"""
for article in list:
    if article.name == name:
        return article
return None

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

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