

# LU02.L02 - Refactoring unpure -> pure

```
# Unpure function
BASKET = [{'Produkt': 'T-Shirt', 'Preis': 20}, {'Produkt': 'Hose', 'Preis': 50}]
DISCOUNT = 0.1

# Unpure function
def calculate_total_unpure():
    global BASKET, DISCOUNT
    total = sum(item['Preis'] for item in BASKET)
    discount = total * DISCOUNT
    total = total - discount
    print("Gesamtpreis:", total)
    return total

# Pure function
def calculate_total_pure(basket, discount):
    total = sum(item['Preis'] for item in basket)
    discount_amount = total * discount
    total = total - discount_amount
    return total

if __name__ == "__main__":
    print("Unpure function:")
    calculate_total_unpure()

    print("Pure function:")
    total = calculate_total_pure(BASKET, DISCOUNT)
    print("Gesamtpreis:", total)
```



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