

Lösung zu Aufgabe 1

```
import json

with open("countries.json", encoding="UTF-8") as file:
    countries = json.load(file)

for country in countries:
    print(f"{country['capital']} ist die Hauptstadt von {country['name']}")
```

Lösung zu Aufgabe 2

```
def countries_to_capitals(countries):
    result = []
    for country in countries:
        result.append(country["capital"])
    return result
```

Lösung zu Aufgabe 3

```
def filter_countries_by_regions(countries, regions):
    result = []
    for country in countries:
        if country["region"] in regions:
            result.append(country)
    return result
```

Lösung zu Aufgabe 4

```
import random

def shuffle_list(input):
    first = input[0]
    others = []
    for item in input:
        if item != first:
            others.append(item)
    random.shuffle(others)
    result = others[0:3]
    result.append(first)
    random.shuffle(result)
    return result
```