

## Lösung zu Aufgabe 1

```
def merge_dictionaries(dict_1, dict_2):  
    result = dict(dict_1) # copy the first dictionary  
    for key, value in dict_2.items():  
        result[key] = value  
    return result
```

## Lösung zu Aufgabe 2

```
def reverse_string(word):  
    return word[::-1]
```

## Lösung zu Aufgabe 3

```
def is_palindrome(word):  
    word = word.lower()  
    return word == word[::-1]
```

## Lösung zu Aufgabe 4

```
import random  
  
def get_answer_options(options):  
    answer = options[0]  
    # Take the remaining options ([1:]) and shuffle them  
    shuffled_options = options[1:]  
    random.shuffle(shuffled_options)  
    # Take the first 3 of the shuffled options  
    result = shuffled_options[0:3]  
    # Append the correct solution  
    result.append(answer)  
    # Shuffle again, so that the correct solution is not  
    # always at the end  
    random.shuffle(result)  
    return result
```