

# Unit Testing 2 Exercises

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1. Write a unit test for the below function.

```
def add_two_numbers(a, b):  
    return a + b
```

2. Write a unit test for the below function `add_number_with_random_number`. You will need to update the code to make use of **dependency injection** and create a mock function.

```
import random  
def get_random_number():  
    return random.randint(1, 10)  
  
def add_number_with_random_number(a):  
    return a + get_random_number()
```

3. Write a unit test for the below function `add_two_random_numbers`. You will need to update the code to make use of **dependency injection** and create a mock function.

```
from random import randint  
  
def get_random_number():  
    return randint(1, 10)  
  
def add_two_random_numbers():  
    return get_random_number() + get_random_number()
```

4. Write a unit test for the below function `get_random_number`. This time it's slightly different as we need to mock a function we haven't written, but the same principles apply. Hint: you need to match the number of arguments that the `randint` function takes for the mock function you will write.

```
from random import randint  
  
def get_random_number():  
    return randint(1, 10)
```