Exercise 1

1. create a JSON file looking like that

Entrée [ ]:

```
{"users":[
    {
        "username": "David",
        "password": "12345",
        "email": "david@super.com",
        "message_received":[],
        "message_sent": []
    },
    {
        "username": "Mark",
        "password": "23412",
        "email": "mark@super.com",
        "message_received":[],
        "message_sent": []
    },
    {
        "username": "Jacob",
        "password": "23821",
        "email": "jacob@super.com",
        "message_received":[],
        "message_sent": []
    },
    {
        "username": "Joseph",
        "password": "62797",
        "email": "joseph@super.com",
        "message_received":[],
        "message_sent": []
    }
]
}
```

Part 1 is the same as exercise 6 of yesterday

for question 5 (the bonus question) you should write the new user inside the json file

For Part 2 you should write every change inside the json file

Exercise 2

Part 1

1. We are trying to recreate the rolling of dice.
2. Your code should keep throwing 2 dice until they both land on the same number.

3. It should keep throwing 2 dice (using your throw_dice function) until they both land on the same number (until we reach doubles). For example: (1, 2), (3, 1), (5,5) → then stop throwing, because doubles were reached.
4. We also want to keep track of the number of throws we had to do to get a double.

Part 2

1. Ask the user how many times does he want to throw dice.
2. Create a variable dictionary called keep_track. It should have three keys: number_of_throw, number_of_double, average_double
3. When we get to a double we want to keep throwing dice and add +1 to the number_of_doubles in our dictionary.
4. At the end calculate the average of double. (number_of_double/number_of_throw)
5. Show the results to the user. The output would show something like this:

```
- Total throws: 8
- Average doubles: 2.67.
```

Part 3

1. Save each 'keep_track' dictionary to a JSON file. It should look like that:

Entrée [ ]:

```
{
    'data':[
        {
            'number_of_throw':12,
            'number_of_double': 2,
            'average_double':0.16666
        },
        {
            'number_of_throw':12,
            'number_of_double': 2,
            'average_double':0.16666
        },
    ]
}
```

Part 4

1. Create a new python file
2. it should read the data from the previous JSON file
3. Calculate the average of double for all the throws (total of double/total of throws)

Entrée [ ]:

```

```

Entrée [ ]: