Assignment - Dictionary & Set

1. Login Demo

There are 5 usernames with their respective password.

- user1: password1
- user2: password2
- user3: password3

Implement a script such that:

1. Use a suitable data structure to store usernames and passwords
2. User enters username and password
3. Check user username and password
    - If username does not exists, print "User not found"
    - if username exists, but password doesn't match, print "Wrong password"
    - If both username and password match, print "You are in"

```
accounts = {'user1':'password1','user2':'password2', 'user3':'password
3'}
```

Sample output:

```
Enter username: user10
Enter password: pass10
User not found

Enter username: user1
Enter password: pass1
Wrong password

Enter username: user1
Enter password: password1
You are in
```

In [ ]:
```
accounts = {'user1':'password1','user2':'password2', 'user3':'password3', 'user4'

username = input("Enter usrename: ")
password = input("Enter password: ")

result = accounts.get(username, False)
# print(result)

if not result:
    print('User not found')
else:
    if password == result:
        print('You are in')
    else:
        print('Wrong password')
```

2. Check Toto Result

The winning number of Toto this week is `7, 20, 29, 41, 47, 49` . Implement a script to help user check result.

- Define a function `match_count(win_nums, your_nums)` which returns counter of matched numbers. It takes in 2 list as parameter, `win_nums` and `your_num` . The `winning_nums` contains winnning numbers, and `your_nums` contains number enters by user.
- Ask user to input a list of numbers separated by space

Sample Output:

```
Enter your Toto numbers separated by space:
1 7 20 29 41 47 49 50
Count of matched numbers:  6
```

In [ ]:
```
def match_count(win_nums, your_nums):
    ws = set(win_nums)
    yn = set(your_nums)
    matched = (ws & yn)
    return len(matched)

win_nums = '7 20 29 41 47 49'
win_nums = win_nums.split()
# print(win_nums)

print('Enter your Toto numbers separated by space: ')
your_nums = input()
your_nums = your_nums.split()
print(your_nums)

count = match_count(win_nums, your_nums)
print('Count of matched numbers: ', count)
```

```
Enter your Toto numbers separated by space:
```