Python – Validator

Purpose
This lab was designed to teach you how to use while loops in python.

Description
Repeatedly prompt the user for a username and password until a valid one is provided.

A username must but be between 6 to 12 characters long (inclusive), contain only lowercase letters a – z and underscores.

A valid password must be 8 to 12 characters long (inclusive), consist of letters, numbers and the special symbols !, @, #, $, %, ^, &, * (shift 1-8). A password is considered invalid if it does not have at least one symbol, letter, **and** number [0-9].

islower(), isdigit(), isalnum(), len(str), in operator and "!@#$$%^&*".find(str) may be useful.

Program Shell
username_password_validator.py and test_user_pswd.py

Sample Execution

```
Please enter your username: joe
Invalid length; Username must be 6-12 characters long.


Please enter your username: joe@
Invalid length; Username must be 6-12 characters long.
Invalid characters: Username must be lowercase a-z and/or underscores.


Please enter your username: joe_Bob
Invalid characters: Username must be lowercase a-z and/or underscores.


Please enter your username: joe_bob

```

... continued

Please enter your password: 1234
Invalid length; Password must be 8-12 characters long.
Password must have at least one number, letter a-z and special symbol.

Please enter your password: 12345678
Password must have at least one number, letter a-z and special symbol.

Please enter your password: 1!A__98765
Invalid characters: Password must be letters, digits, and special symbols.

Please enter your password: ~~1234ABC!!
Invalid characters: Password must be letters, digits, and special symbols.

Please enter your password: 12345ABCDE
Password must have at least one number, letter a-z and special symbol.

Please enter your password: !abcdefg7

Username: joe_bob
Password: !abcdefg7