Task: Random Password Generator

Description: Developed a command-line tool for generating random passwords with customizable length and complexity.

- Allows users to specify password requirements such as including uppercase letters, lowercase letters, digits, and special characters.
- The application ensures that the generated passwords are secure and random, making them resistant to brute-force attacks and guessing.

Usage

- Generate a Password with Specific Requirements:
 - Length: Specify the length of the password.
 - Character Types: Optionally include uppercase letters, lowercase letters, digits, and special characters.

Command-Line Arguments

- -l or --length: (Required) Length of the password.
- -u or --uppercase: (Optional) Include uppercase letters.
- -lw or --lowercase: (Optional) Include lowercase letters.
- -d or --digits: (Optional) Include digits.
- -s or --special: (Optional) Include special characters.

Sample Output:

1. Generate a Password of Length 12 with All Character Types:

```
(base) faheemagullnaas@Faheemas-MacBook-Air ~ % nano password_generator.py
(base) faheemagullnaas@Faheemas-MacBook-Air ~ % python password_generator.py -1
12 -u -lw -d -s
Generated Password: EB*GM=5zF7i:
```

2. Generate a Password of Length 8 with Only Lowercase Letters and Digits:

(base) faheemagullnaas@Faheemas-MacBook-Air ~ % python password_generator.py -1 8 -lw -d

Generated Password: vnx37s8x