**Random Password Generator**

**Overview**

**This project is a \*Random Password Generator\* written in Python. It generates secure passwords based on user-specified lengths and follows a \*50-30-20 formula\* for character distribution:**

* **0% alphabets (uppercase and lowercase)**
* **30% numbers**
* **20% special characters**

**Features**

* **Allows the user to specify the desired password length.**
* **Randomizes the order of characters for added security.**
* **Uses uppercase and lowercase letters for better complexity.**
* **Ensures strong password creation with numbers and special characters.**

**How It Works**

**1. The user inputs the desired password length.**

**2. The password is split into \*alphabets, \*\*numbers, and \*\*special characters\* based on the \*50-30-20 rule\*.**

**3. Characters are randomly selected from predefined sets.**

**4. The final password is shuffled and displayed.**

**Example Usage**

**bash**

**Enter Password Length: 12**

**Generated Password: aB3g@1H9%jQ2**