

```
import random
import string
```

```
def generate_password(length=12):
    # Define character sets for different types of
    characters
    lowercase_letters = string.ascii_lowercase
    uppercase_letters = string.ascii_uppercase
    digits = string.digits
    special_characters = string.punctuation

    # Combine character sets
    all_characters = lowercase_letters +
    uppercase_letters + digits + special_characters

    # Ensure at least one character from each
    character set is included
    password = [random.choice(lowercase_letters),
                random.choice(uppercase_letters),
                random.choice(digits),
                random.choice(special_characters)]

    # Fill the rest of the password with random
    characters
    for _ in range(length - 4):
        password.append(random.choice(all_characters))

    # Shuffle the characters to make the password
    more secure
    random.shuffle(password)
```

```
return ".join(password)
```

```
def generate_multiple_passwords(number_of_passwords,  
password_length=12):  
    passwords =  
    [generate_password(password_length) for _ in  
    range(number_of_passwords)]  
    return passwords
```

```
if __name__ == "__main__":  
    num_passwords = int(input("Enter the number  
of passwords to generate: "))  
    password_length = int(input("Enter the length of  
each password: "))
```

```
    generated_passwords =  
    generate_multiple_passwords(num_passwords,  
password_length)
```

```
    for i, password in  
    enumerate(generated_passwords, start=1):  
        print(f"Password {i}: {password}")
```