E:\random pw.py

```python
 1  import random
 2  import string
 3
 4  def generate_password(length):
 5      # Define the character sets to use in the password
 6      lowercase = string.ascii_lowercase
 7      uppercase = string.ascii_uppercase
 8      digits = string.digits
 9      special_chars = string.punctuation  # Feel free to customize this string with additional
    special characters
10
11      # Combine all the character sets to form the full set of characters to use
12      all_chars = lowercase + uppercase + digits + special_chars
13
14      # Generate a random password using the defined length
15      password = ''.join(random.sample(all_chars, length))
16
17      return password
18
```