

password.py

```
1 import random
2 import string
3
4 def generate_password(length):
5     # Define the character set
6     characters = string.ascii_letters + string.digits + string.punctuation
7
8     # Generate random password
9     password = ''.join(random.choice(characters) for _ in range(length))
10    return password
11
12 def main():
13     print("=== PASSWORD GENERATOR ===")
14     try:
15         length = int(input("Enter desired password length: "))
16         if length < 4:
17             print("Password length should be at least 4 characters.")
18         else:
19             password = generate_password(length)
20             print(f"\nGenerated Password: {password}")
21     except ValueError:
22         print("Invalid input! Please enter a valid number.")
23
24 if __name__ == "__main__":
25     main()
26
```