

```

1 import re
2
3 def check_password_complexity(password):
4     """
5     Check password complexity based on common rules:
6     - At least 8 characters long
7     - Contains uppercase letters
8     - Contains lowercase letters
9     - Contains digits
10    - Contains special characters
11    """
12    errors = []
13
14    if len(password) < 8:
15        errors.append("Password must be at least 8 characters long.")
16    if not re.search(r"[A-Z]", password):
17        errors.append("Password must contain at least one uppercase letter.")
18    if not re.search(r"[a-z]", password):
19        errors.append("Password must contain at least one lowercase letter.")
20    if not re.search(r"\d", password):
21        errors.append("Password must contain at least one digit.")
22    if not re.search(r"[!@#$%^&*(),.\?\"':{}|<>]", password):
23        errors.append("Password must contain at least one special character.")
24
25    if errors:
26        print("Password is weak:")
27        for err in errors:
28            print(f"    - {err}")
29        return False
30    else:
31        print("Password is strong.")
32        return True
33
34
35 # Example usage:
36 if __name__ == "__main__":
37     password = input("Enter a password to check: ")
38     check_password_complexity(password)
39

```