

```
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
```