- Passwords must be at least 8 characters long

- Passwords must contain at least one numeric digit

- Passwords must contain at least one special character from the set: !@#$%^&\*(),.?":{}|<>`

- The password validation function will return a boolean indicating if the password is valid or not

- The password validation function will also return a message indicating why the password is invalid, if it is not valid

- Example valid passwords: abc123@, mypassword1, Pass123!, 12345678

- Example invalid passwords: abc123, abc12345, abc123@

- Password must be at least 8 characters long

- Password must contain at least one digit

- Password must contain at least one special character from the set {!@#$%^&\*(),.?":{}|<>`}

- Test valid and invalid passwords by passing them to the validate\_password function

- Print the validity result and message returned from validate\_password for each tested password