**PROGRAM**:

Import getpass

*# Sample passwords for the three levels*

LEVEL\_1\_PASSWORD = “password123”

LEVEL\_2\_PASSWORD = “secure@456”

LEVEL\_3\_PASSWORD = “Strong!789”

Def level\_1():

Print(“Level 1: Enter the basic password.”)

Try:

Password = getpass.getpass(“Password: “)

Except Exception as e:

Print(f”Error reading password: {e}”)

Return False

If password == LEVEL\_1\_PASSWORD:

Print(“Level 1 authentication successful!\n”)

Return True

Else:

Print(“Incorrect password. Access Denied.”)

Return False

Def level\_2():

Print(“Level 2: Enter the moderate password.”)

Try:

Password = getpass.getpass(“Password: “)

Except Exception as e:

Print(f”Error reading password: {e}”)

Return False

If password == LEVEL\_2\_PASSWORD:

Print(“Level 2 authentication successful!\n”)

Return True

Else:

Print(“Incorrect password. Access Denied.”)

Return False

Def level\_3():

Print(“Level 3: Enter the complex password.”)

Try:

Password = getpass.getpass(“Password: “)

Except Exception as e:

Print(f”Error reading password: {e}”)

Return False

If password == LEVEL\_3\_PASSWORD:

Print(“Level 3 authentication successful! You have full access.\n”)

Return True

Else:

Print(“Incorrect password. Access Denied.”)

Return False

Def three\_level\_password\_system():

Print(“Welcome to the Three-Level Password System!”)

*# Level 1 Authentication*

If not level\_1():

Return

*# Level 2 Authentication*

If not level\_2():

Return

*# Level 3 Authentication*

If not level\_3():

Return

Print(“Congratulations! You have passed all three levels of authentication.”)

*# Run the system*

If \_\_name\_\_ == “\_\_main\_\_”:

Three\_level\_password\_system()

**OUTPUT**:

Welcome to the Three-Level Password System!

Level 1: Enter the basic password.

Password: \*\*\*\*\*\*\*\*

Level 1 authentication successful!

Level 2: Enter the moderate password.

Password: \*\*\*\*\*\*\*\*

Level 2 authentication successful!

Level 3: Enter the complex password.

Password: \*\*\*\*\*\*\*\*

Level 3 authentication successful! You have full access.

Congratulations! You have passed all three levels of authentication.