-- Define valid user credentials

local validUsers = {

["admin"] = "password123",

["user1"] = "securepass",

["guest"] = "guestpass"

}

-- Function to mask password input

local function readPassword(prompt)

term.write(prompt)

local input = ""

while true do

local event, key = os.pullEvent("char")

if key == "\n" then -- Enter key to finish input

break

elseif key == "\b" and #input > 0 then -- Backspace to delete a character

input = input:sub(1, -2)

term.write("\b \b") -- Remove character from display

else

input = input .. key

term.write("\*") -- Mask input with '\*'

end

end

return input

end

-- Login function

local function login()

term.clear()

term.setCursorPos(1, 1)

print("Welcome! Please log in.")

-- Get username

term.write("Username: ")

local username = read()

-- Get masked password

local password = readPassword("\nPassword: ")

-- Validate credentials

if validUsers[username] == password then

print("\nLogin successful! Welcome, " .. username .. ".")

return true

else

print("\nInvalid username or password.")

return false

end

end

-- Main Program Loop

while true do

if login() then

break -- Exit loop on successful login

else

print("Press any key to try again...")

os.pullEvent("key") -- Wait for user input

end

end