

The screenshot shows a code editor window with the following details:

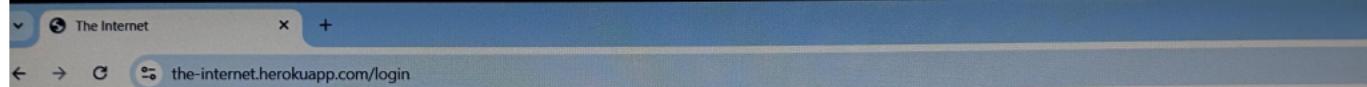
- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Search Bar:** Q Search.
- Toolbar:** Includes icons for file operations like Open, Save, Find, and Run.
- Left Sidebar:** Shows project navigation with files task_4.py, test_3.py, and Untitled-1.
- Code Area:** Displays a Python script named task_4.py. The code uses the Selenium library to automate a login process on a Heroku application.

```
C:\> Users > Admin > OneDrive > Desktop > test_3.py > ...
1  from selenium import webdriver
2  from selenium.webdriver.common.by import By
3  from selenium.webdriver.support.ui import WebDriverWait
4  from selenium.webdriver.support import expected_conditions as EC
5  import time
6
7  driver = webdriver.Chrome()
8  wait = WebDriverWait(driver, 10)
9
10 driver.get("https://the-internet.herokuapp.com/login")
11 driver.maximize_window()
12
13 # Wait until username field is present
14 wait.until(EC.presence_of_element_located((By.ID, "username")))
15
16 username = driver.find_element(By.ID, "username")
17 password = driver.find_element(By.ID, "password")
18
19 username.send_keys("tomsmith")
20 password.send_keys("SuperSecretPassword!")
21
22 wait.until(EC.element_to_be_clickable((By.CSS_SELECTOR, "button[type='submit']"))).click()
23
24 time.sleep(3)
25
26 if "secure" in driver.current_url:
27     print("Positive Test Case Passed - Login Successful")
28 else:
29     print("Positive Test Case Failed")
30
31 driver.back()
32
33 # Wait until username field is present again after going back
34 wait.until(EC.presence_of_element_located((By.ID, "username")))
35
36 username = driver.find_element(By.ID, "username")
37 password = driver.find_element(By.ID, "password")
```

The screenshot shows a Python IDE interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Search Bar:** Q Search.
- Toolbar:** Taskbar icons for task_4.py, test_3.py, and Untitled-1.
- Code Area:** The code is written in Python using the Selenium library to interact with a web browser. It includes logic for both positive and negative test cases, handling user input and button clicks.

```
C:\> Users > Admin > OneDrive > Desktop > test_3.py > ...
26 if "secure" in driver.current_url:
27     print("Positive Test Case Passed - Login Successful")
28 else:
29     print("Positive Test Case Failed")
30
31 driver.back()
32
33 # Wait until username field is present again after going back
34 wait.until(EC.presence_of_element_located((By.ID, "username")))
35
36 username = driver.find_element(By.ID, "username")
37 password = driver.find_element(By.ID, "password")
38
39 username.send_keys("wronguser")
40 password.send_keys("wrongpass")
41
42 wait.until(EC.element_to_be_clickable((By.CSS_SELECTOR, "button[type='submit']"))).click()
43
44 time.sleep(3)
45
46 print("Negative Test Case 1 Executed - Invalid Login Tested")
47
48 driver.back()
49
50 # Wait until username field is present again after going back
51 wait.until(EC.presence_of_element_located((By.ID, "username")))
52
53 wait.until(EC.element_to_be_clickable((By.CSS_SELECTOR, "button[type='submit']"))).click()
54
55 time.sleep(3)
56
57 print("Negative Test Case 2 Executed - Empty Fields Tested")
58
59 driver.quit()
```



Login Page

This is where you can log into the secure area. Enter *tomsmith* for the username and *SuperSecretPassword!* for the password. If the information is wrong you should see error messages.

Username



Password

 Login

A blue rectangular button containing a white right-pointing arrow icon followed by the word "Login" in white text.

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Chrome is being controlled by automated test software

You logged into a secure area!

Secure Area

Welcome to the Secure Area. When you are done click logout below.

[Logout](#)

Powered by Elemental Selenium

This site is being controlled by automated test software

You logged into a secure area!

Secure Area

Welcome to the Secure Area

[Logout](#)



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The Internet

the-internet.herokuapp.com/login

me is being controlled by automated test software

Login Page

This is where you can log in with your credentials.
SuperSecretPassword! for example.

messages.

Username

tomsmith

Password

.....

Login

Change your password

The password you just used was found in a data breach. Google Password Manager recommends changing your password now.

OK

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The screenshot shows a Visual Studio Code interface with the following details:

- File Explorer:** On the left, it shows a tree structure with files like "task_4.py", "test_3.py", and "Python Debugger: Cu...".
- Code Editor:** The main area displays Python code for a login test. The code includes imports for `selenium.webdriver` and `time`, and defines a driver object. It performs two negative test cases: one where the password is incorrect ("wrongpass") and another where both fields are empty. Both cases involve waiting for the "submit" button to be clickable and then clicking it. After each test, it prints a message and returns to the previous page by calling `driver.back()`. Finally, it quits the browser.
- Terminal:** At the bottom, the terminal window shows the command run: "PS C:\Users\Admin\OneDrive\Desktop> & 'c:/Users/Admin/AppData/Local/Python/pythoncore-3.14-64/python.exe' 'c:/Users/Admin/.vscode/extensions/ms-python.debugpy-2025.18.0-win32-x64/bundled/libs/debugpy/launcher' '55349' '--' 'C:/Users/Admin/OneDrive/Desktop/test_3.py'". The output indicates "Positive Test Case Passed - Login Successful" and "Negative Test Case 1 Executed - Invalid Login Tested".
- Status Bar:** The status bar at the bottom right shows icons for file operations like save, close, and refresh.



File View Go Run Terminal Help ← → Q Search Python Debugger: Cu... 08 09 10

variables
variables
le 'selenium.webdriver.su...
selenium.webdriver.chrome...
<selenium.webdriver.remo...
dule 'time' (built-in)
<selenium.webdriver.remo...
lenium.webdriver.support...
= <module 'selenium.webdriver'

C: > Users > Admin > OneDrive > Desktop > test_3.py > ...
40 password.send_keys("wrongpass")
41
42 wait.until(EC.element_to_be_clickable((By.CSS_SELECTOR, "button[type='submit']"))).click()
43
44 time.sleep(3)
45
46 print("Negative Test Case 1 Executed - Invalid Login Tested")
47
48 driver.back()
49
50 # Wait until username field is present again after going back
51 wait.until(EC.presence_of_element_located((By.ID, "username")))
52
53 wait.until(EC.element_to_be_clickable((By.CSS_SELECTOR, "button[type='submit']"))).click()
54
55 time.sleep(3)
56
57 print("Negative Test Case 2 Executed - Empty Fields Tested")
58
59 driver.quit()
60

INVALID SESSION ID: SESSION DE...
NO SUCH WINDOW: TARGET WI...
STACKTRACE SYMBOLS NOT AVA...

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\Admin\OneDrive\Desktop> & 'c:\Users\Admin\AppData\Local\Python\pythoncore-3.14-64\python.exe' 'c:\Users\Admin\.vscode\extensions-python.debugpy-2025.18.0-win32-x64\bundled\libs\debugpy\launcher' '60234' '--' 'c:\Users\Admin\OneDrive\Desktop\test_3.py'
Positive Test Case Passed - Login Successful
Negative Test Case 1 Executed - Invalid Login Tested
Negative Test Case 2 Executed - Empty Fields Tested
PS C:\Users\Admin\OneDrive\Desktop>

Exceptions
Exceptions
Caught Exceptions

Ln 51 Col 1 Spaces: 4 UTF-8 CR/LF