# Software Engineering Tools Lab
# Assignment No-9

**PRN: 2020BTECS00033**
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**Batch: T6**

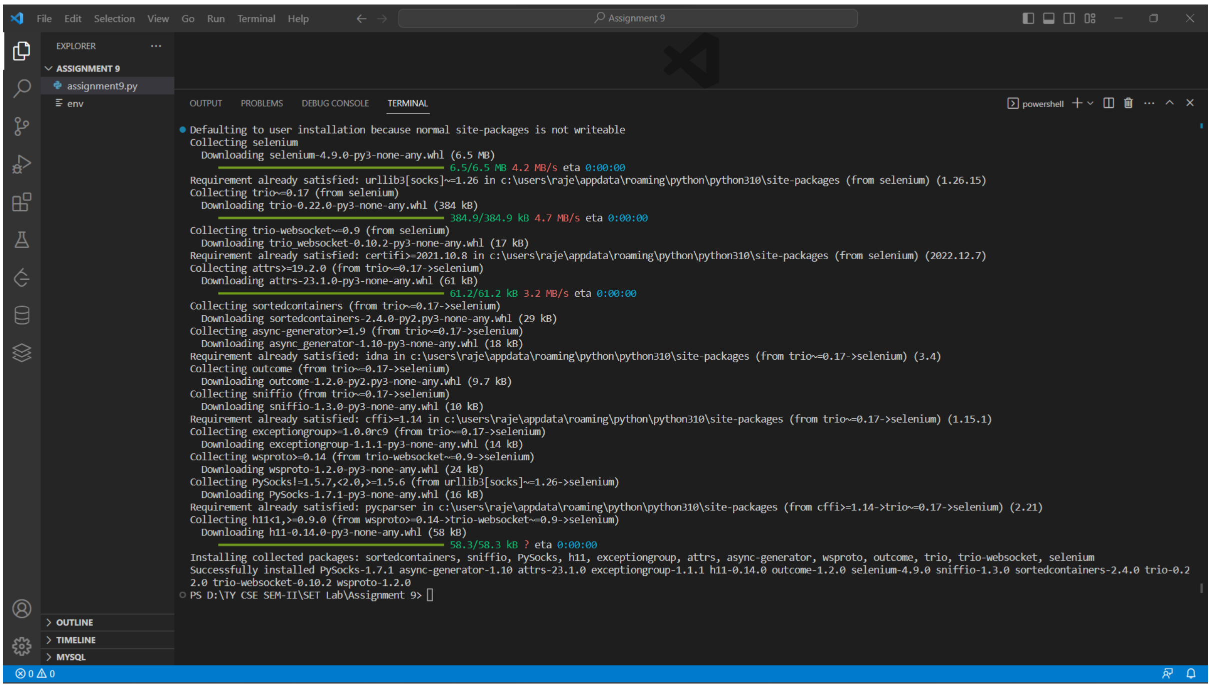
## Q.1. What are the prerequisites for installing the Selenium.

**Ans:**

1. Selenium WebDriver (package for python)
2. Python
3. MS Edge Driver

## Q.2. Install Selenium tool on your machine (Provide screenshots for successful installation and login)

**Ans:**



```
Defaulting to user installation because normal site-packages is not writeable
Collecting selenium
  Downloading selenium-4.9.0-py3-none-any.whl (6.5 MB)
     ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 6.5/6.5 MB 4.2 MB/s eta 0:00:00
Requirement already satisfied: urllib3[socks]~=1.26 in c:\users\raje\appdata\roaming\python\python310\site-packages (from selenium) (1.26.15)
Collecting trio~=0.17 (from selenium)
  Downloading trio-0.22.0-py3-none-any.whl (384 kB)
     ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 384.9/384.9 kB 4.7 MB/s eta 0:00:00
Collecting trio-websocket~=0.9 (from selenium)
  Downloading trio_websocket-0.10.2-py3-none-any.whl (17 kB)
Requirement already satisfied: certifi>=2021.10.8 in c:\users\raje\appdata\roaming\python\python310\site-packages (from selenium) (2022.12.7)
Collecting attrs>=19.2.0 (from trio~=0.17->selenium)
  Downloading attrs-23.1.0-py3-none-any.whl (61 kB)
     ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 61.2/61.2 kB 3.2 MB/s eta 0:00:00
Collecting sortedcontainers (from trio~=0.17->selenium)
  Downloading sortedcontainers-2.4.0-py2.py3-none-any.whl (29 kB)
Collecting async-generator>=1.9 (from trio~=0.17->selenium)
  Downloading async_generator-1.10-py3-none-any.whl (18 kB)
Requirement already satisfied: idna in c:\users\raje\appdata\roaming\python\python310\site-packages (from trio~=0.17->selenium) (3.4)
Collecting outcome (from trio~=0.17->selenium)
  Downloading outcome-1.2.0-py2.py3-none-any.whl (9.7 kB)
Collecting sniffio (from trio~=0.17->selenium)
  Downloading sniffio-1.3.0-py3-none-any.whl (10 kB)
Requirement already satisfied: cffi>=1.14 in c:\users\raje\appdata\roaming\python\python310\site-packages (from trio~=0.17->selenium) (1.15.1)
Collecting exceptiongroup>=1.0.0rc9 (from trio~=0.17->selenium)
  Downloading exceptiongroup-1.1.1-py3-none-any.whl (14 kB)
Collecting wsproto>=0.14 (from trio-websocket~=0.9->selenium)
  Downloading wsproto-1.2.0-py3-none-any.whl (24 kB)
Collecting PySocks!=1.5.7,<2.0,>=1.5.6 (from urllib3[socks]~=1.26->selenium)
  Downloading PySocks-1.7.1-py3-none-any.whl (16 kB)
Requirement already satisfied: pycparser in c:\users\raje\appdata\roaming\python\python310\site-packages (from cffi>=1.14->trio~=0.17->selenium) (2.21)
Collecting h11<1,>=0.9.0 (from wsproto>=0.14->trio-websocket~=0.9->selenium)
  Downloading h11-0.14.0-py3-none-any.whl (58 kB)
     ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 58.3/58.3 kB ? eta 0:00:00
Installing collected packages: sortedcontainers, sniffio, PySocks, h11, exceptiongroup, attrs, async-generator, wsproto, outcome, trio, trio-websocket, selenium
Successfully installed PySocks-1.7.1 async-generator-1.10 attrs-23.1.0 exceptiongroup-1.1.1 h11-0.14.0 outcome-1.2.0 selenium-4.9.0 sniffio-1.3.0 sortedcontainers-2.4.0 trio-0.2
2.0 trio-websocket-0.10.2 wsproto-1.2.0
PS D:\TY CSE SEM-II\SET Lab\Assignment 9> 
```

## Using Selenium tool create multiple test cases (at least 10) on any application/project that you have implemented.

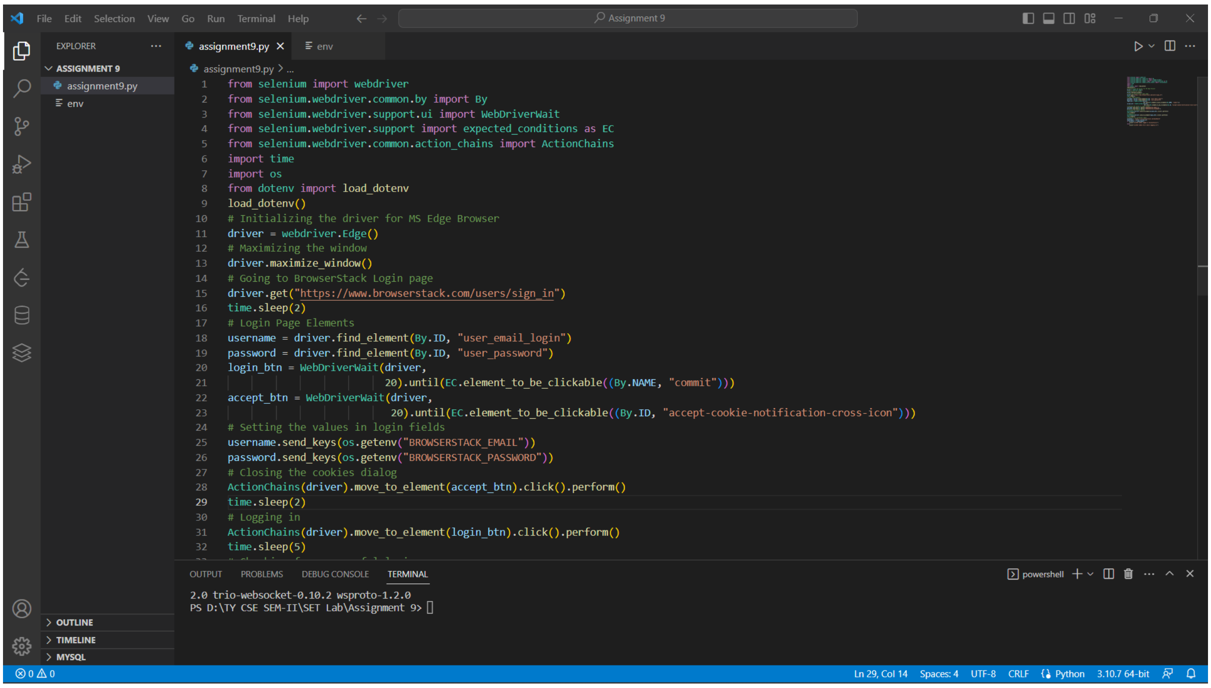
**Perform below tasks:**

- a. **Create New test project as SETProject**
- b. **Create a test plan as SETProjectTestPlan**
- c. **Create a build as SETProjectBuild**

d. **Create test suite as Test Suite 1 under SETProject**

e. **Create Test cases in Selenium Tool**

## Ans:

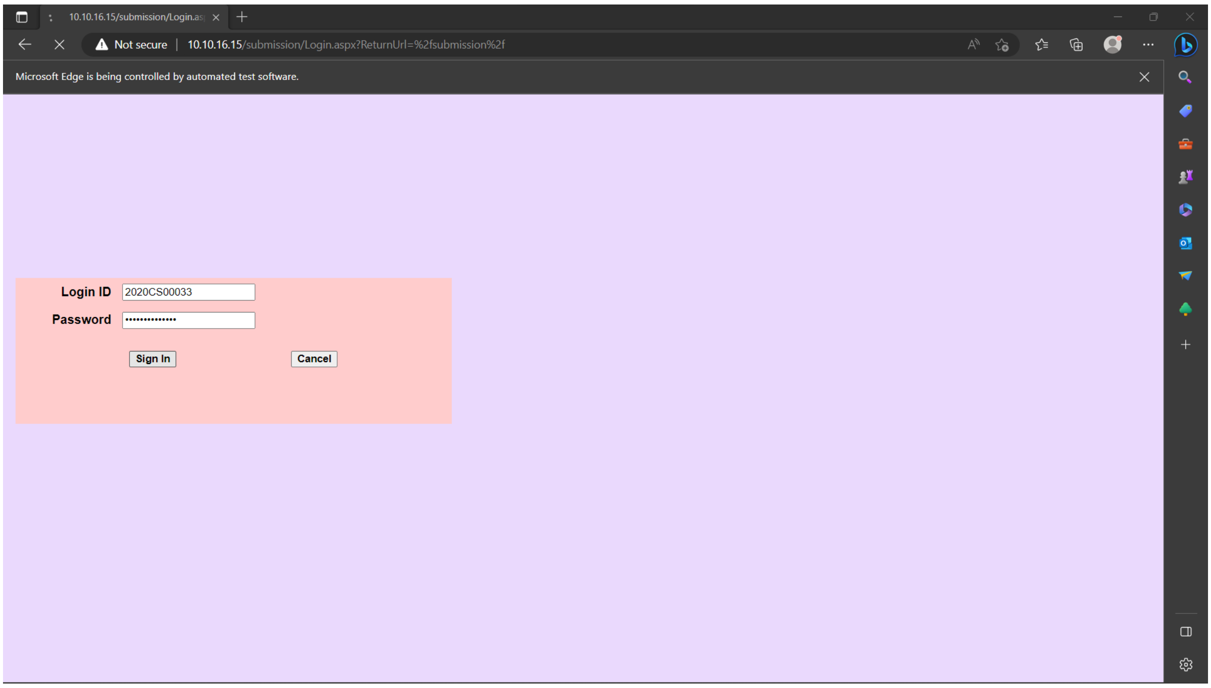


assignment9.py

```python
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.support.ui import WebDriverWait
from selenium.webdriver.support import expected_conditions as EC
from selenium.webdriver.common.action_chains import ActionChains
import time
import os
from dotenv import load_dotenv
load_dotenv()
# Initializing the driver for MS Edge Browser
driver = webdriver.Edge()
# Maximizing the window
driver.maximize_window()
# Going to BrowserStack Login page
driver.get("https://www.browserstack.com/users/sign_in")
time.sleep(2)
# Login Page Elements
username = driver.find_element(By.ID, "user_email_login")
password = driver.find_element(By.ID, "user_password")
login_btn = WebDriverWait(driver,
                          20).until(EC.element_to_be_clickable((By.NAME, "commit")))
accept_btn = WebDriverWait(driver,
                           20).until(EC.element_to_be_clickable((By.ID, "accept-cookie-notification-cross-icon")))
# Setting the values in login fields
username.send_keys(os.getenv("BROWSERSTACK_EMAIL"))
password.send_keys(os.getenv("BROWSERSTACK_PASSWORD"))
# Closing the cookies dialog
ActionChains(driver).move_to_element(accept_btn).click().perform()
time.sleep(2)
# Logging in
ActionChains(driver).move_to_element(login_btn).click().perform()
time.sleep(5)
```

```
2.0 trio-websocket-0.10.2 wsproto-1.2.0
PS D:\TY CSE SEM-II\SET Lab\Assignment 9> 
```

File Edit Selection View Go Run Terminal Help
Assignment 9
EXPLORER
ASSIGNMENT 9
assignment9.py
env
OUTLINE
TIMELINE
MYSQL
OUTPUT PROBLEMS DEBUG CONSOLE TERMINAL
powershell
Ln 29, Col 14 Spaces: 4 UTF-8 CRLF Python 3.10.7 64-bit



10.10.16.15/submission/Login.aspx?ReturnUrl=%2fsubmission%2f

Microsoft Edge is being controlled by automated test software.

Login ID 2020CS00033

Password ••••••••••••••

Not secure
Sign In
Cancel