

Software Quality Assurance

Assignment 2

Section A

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import os

import csv

from selenium import webdriver

from selenium.webdriver.firefox.options import Options

course\_ID = "Enter your Course ID: "

user\_name = "Enter your Username: "

password\_ = "Enter your Password: "

options = Options()

options.headless = True

firefox\_profile = webdriver.FirefoxProfile()

firefox\_profile.set\_preference('permissions.default.image', 2)

firefox\_profile.set\_preference('dom.ipc.plugins.enabled.libflash

player.so', 'false')

driver = webdriver.Firefox(options=options,firefox\_profile=firefox\_profile)

driver.get("http://tmoodle.fccollege.edu.pk/moodle/login/index

.php")

driver.find\_element\_by\_xpath('//\*[@id="user\_name"]').send\_ke

ys(user\_name)

driver.find\_element\_by\_xpath('//\*[@id="password"]').send\_ke

ys(password\_)

driver.find\_element\_by\_xpath('//\*[@id="loginbtn"]').click()

driver.get("http://tmoodle.fccollege.edu.pk/moodle/user/index.php?id="+course\_ID + "&perpage=100")

data = []

peeps\_elem = driver.find\_elements\_by\_xpath("/html/body/div[1]/div[2]/div/d iv/section/div/div/div/div[2]/div[3]/table/tbody/tr/td/a")

for each in peeps\_elem:

url = each.get\_attribute("href")

driver.execute\_script('window.open("{}", "\_blank");')

driver.switch\_to.window(driver.window\_handles[1])

driver.get(url)

try:

name = driver.find\_element\_by\_xpath('//\*[@id="region-main"]/div/div/div/div/div[1]/div[2]/h2').text

email = driver.find\_element\_by\_xpath('//\*[@id="region-main"]/div/div/div/div/div/section[1]/ul/li/dl/dd/a').text

except Exception as e:

email = "N/A"

print(e)

print(name, email)

text = [name,email]

data.append(text)

with open('students.csv', 'w') as data\_file:

writer = csv.writer(data\_file)

writer.writerows(data)

driver.close()

driver.switch\_to.window(driver.window\_handles[0])

Function.py

windows, actions, and settings.

import math

def maximum(a, b):

if a >= b:

return a

else:

return b

def reverse(str1):

rstr1 = ''

index = len(str1)

while index > 0:

rstr1 += str1[ index - 1]

index = index - 1

return rstr1

def areaCircle(r):

return (math.pi\*r\*\*2)

def circumCircle(r):

return (2\*math.pi\*r)

def prime(n):

if (n==1):

return False

elif (n==2):

return True;

else:

for x in range(2,n):

if(n % x==0):

return False

return True

if \_\_name\_\_ == '\_\_main\_\_':

print(maximum(5, 1))

print(reverse("helloWorld"))

print(areaCircle(3))

print(circumCircle(3))

print(prime(3))

Test function.py

import unittest

import function

class Testfunction(unittest.TestCase):

def test\_maximum(self):

self.assertEqual(function.maximum(10, 5), 10)

def test\_reverse(self):

self.assertEqual(function.reverse("abcd"), "dcba")

def test\_areaCircle(self):

self.assertEqual(function.areaCircle(3),28.274333882308138)

def test\_circumCircle(self):

self.assertEqual(function.circumCircle(3),18.84955592153876)

def test\_prime(self):

self.assertEqual(function.prime(3), True)

if \_\_name\_\_ == '\_\_main\_\_':

unittest.main()