

```

1
2 from selenium import webdriver
3 from selenium.webdriver.common.keys import Keys
4 from selenium.webdriver.common.action_chains import
  ActionChains ## MAYBE
5 from selenium.common.exceptions import
  ElementNotInteractableException,
  NoSuchElementException,
  StaleElementReferenceException
6 from random import randint, randrange
7 import time
8 import random
9
10 PRODUCT_URL = 'PASTE PRODUCT URL IN HERE'
11 WAIT_TIME = 7
12 PRICE_LIMIT = 700.00
13
14 class ShopBot:
15     def __init__(self, username, password):
16         """ Initializes Bot with class-wide variables
17         . """
18         self.username = username
19         self.password = password
20         self.driver = webdriver.Firefox()
21
22         ## Sign into site with the product
23         def signIn(self):
24             """ Sign into site with the product. """
25             driver = self.driver ## Navigate to URL
26
27             ## Enter Username
28             username_elem = driver.find_element_by_xpath(
29                 """ //*[@name='email'] """)
30             username_elem.clear()
31             username_elem.send_keys(self.username)
32
33             time.sleep(randint(int(WAIT_TIME / 2),
34                                WAIT_TIME))
35             username_elem.send_keys(Keys.RETURN)
36             time.sleep(randint(int(WAIT_TIME / 2),
37                                WAIT_TIME))

```

```
34
35     ## Enter Password
36     password_elem = driver.find_element_by_xpath(
37         """//input[@name='password']""")
38     password_elem.clear()
39     password_elem.send_keys(self.password)
40     time.sleep(randint(int(WAIT_TIME / 2),
41         WAIT_TIME))
42     password_elem.send_keys(Keys.RETURN)
43     time.sleep(randint(int(WAIT_TIME / 2),
44         WAIT_TIME))
45     ## Find product under X amount
46     def findProduct(self):
47         """ Finds the product with global link. """
48         driver = self.driver
49         driver.get(AMAZON_TEST_URL)
50         time.sleep(randint(int(WAIT_TIME / 2),
51             WAIT_TIME))
52         ## If the product is not available, wait
53         until it is available
54         isAvailable = self.isProductAvailable()
55         if isAvailable == 'Currently unavailable.':
56             time.sleep(randint(int(WAIT_TIME / 2),
57                 WAIT_TIME))
58             self.findProduct()
59             elif isAvailable <= PRICE_LIMIT:
60                 ## Buy Now
61                 buy_now = driver.find_element_by_name('
62                 submit.buy-now')
63                 buy_now.click()
64                 time.sleep(randint(int(WAIT_TIME / 2),
65                     WAIT_TIME))
66                 self.signIn()
67                 time.sleep(randint(int(WAIT_TIME / 2),
68                     WAIT_TIME))
69
70     ## Place Order
```

```

66         place_order = driver.
        find_element_by_name('placeYourOrder1').text
67         time.sleep(randint(int(WAIT_TIME / 2),
        WAIT_TIME))
68         print(f'***** PLACE ORDER: {place_order}
        ')
69         time.sleep(randint(int(WAIT_TIME / 2),
        WAIT_TIME))
70         ## place_order.click()
71         ## time.sleep(randint(int(WAIT_TIME/2),
        WAIT_TIME))
72
73         else:
74             time.sleep(randint(int(WAIT_TIME / 2),
        WAIT_TIME))
75             self.findProduct()
76
77     def isProductAvailable(self):
78         """ Checks if product is available. """
79         driver = self.driver
80         available = driver.
        find_element_by_class_name('a-color-price').text
81         if available == 'Currently unavailable.':
82             print(f'***** AVAILABLE: {available}')
83             return available
84         else:
85             print(f'***** PRICE: {available}')
86             return float(available[1:]) ## $123.22
        -> 123.22
87
88     def closeBrowser(self):
89         """ Closes browser """
90         self.driver.close()
91
92
93 if __name__ == '__main__':
94     shopBot = ShopBot(username="YOUR_USERNAME",
        password="YOUR_PASSWORD")
95     shopBot.findProduct()
96     shopBot.closeBrowser()

```