

Cheat sheet –

Naveen Automation Labs		
Purpose	Command Syntax	Example
Run all tests	<code>npx playwright test</code>	<code>npx playwright test</code>
Run a specific test file	<code>npx playwright test <filename></code>	<code>npx playwright test tests/login.spec.ts</code>
Run a specific test using test name pattern	<code>npx playwright test -g "name"</code>	<code>npx playwright test -g "should login successfully"</code>
Run specific test using line number	<code>npx playwright test <filename>:<line></code>	<code>npx playwright test tests/login.spec.ts:15</code>
Run tests in a specific directory	<code>npx playwright test <dir>/</code>	<code>npx playwright test tests/api/</code>
Run tests with a specific tag (@tag)	<code>npx playwright test --grep "@tag"</code>	<code>npx playwright test --grep "@smoke"</code>
Run tests except those with a tag	<code>npx playwright test --grep-invert "@tag"</code>	<code>npx playwright test --grep-invert "@wip"</code>
Run tests in parallel (default)	<code>npx playwright test</code>	<code>npx playwright test</code>
Run tests sequentially	<code>npx playwright test --workers=1</code>	<code>npx playwright test --workers=1</code>
Run a specific test by name	<code>npx playwright test -g <test name></code>	<code>npx playwright test -g "Search box should be visible"</code>
Run using a specific config file	<code>npx playwright test --config=<file></code>	<code>npx playwright test --config=playwright.dev.config.ts</code>
Run using a specific project from config	<code>npx playwright test --project=<project></code>	<code>npx playwright test --project=chromium</code>
Run tests with a specific reporter	<code>npx playwright test --reporter=<reporter></code>	<code>npx playwright test --reporter=html</code>
Run tests in headed mode	<code>npx playwright test --headed</code>	<code>npx playwright test --headed</code>
Run tests in debug mode	<code>npx playwright test --debug</code>	<code>npx playwright test --debug</code>
Use environment variables	<code>ENV_VAR=value npx playwright test</code>	<code>BASE_URL=https://dev.site.com npx playwright test</code>
Naveen Automation Labs		

```
mytest > google.spec.ts > test.describe('Google Search Tests') callback > test('Should show results after searching a keyword @smoke') callback
1  import { test, expect } from '@playwright/test';
2
3  test.describe('Google Search Tests', () => {
4
5      test('Homepage should load successfully @smoke', async ({ page }) => {
6          await page.goto('https://www.google.com');
7          await expect(page).toHaveTitle(/Google/);
8      });
9
10     test('Search box should be visible @regression', async ({ page }) => {
11         await page.goto('https://www.google.com');
12         const searchBox = page.locator('textarea[name="q"]');
13         await expect(searchBox).toBeVisible();
14     });
15
16     test('Should show results after searching a keyword @smoke', async ({ page }) => {
17         await page.goto('https://www.google.com');
18         const searchBox = page.locator('textarea[name="q"]');
19         await searchBox.fill('Playwright');
20         await searchBox.press('Enter');
21     });
22
23     //fail one test for dot reporter.
24     test('Shoulda_1 show results after searching a keyword @smoke', async ({ page }) => {
25         await page.goto('https://www.google.com');
26         const searchBox = page.locator('textarea[naewrme="q"]');
27         await searchBox.fill('Playwright');
28         await searchBox.press('Enter');
29     });
30
31 });
32
```

Run all tests-

```

(base) naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabs$
(base) naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabs$
(base) naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabs$ npx playwright test

```

See report–

```

npx playwright show-report
(base) naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabs$ npx playwright show-report

```

Default is headless and parallel.

Run specific file–

```

Serving HTML report at http://localhost:9323. Press Ctrl+C to quit.
(base) naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabs$ npx playwright test tests/google.spec.ts

```

Run specific test from file –

```

npx playwright show-report
(base) naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabs$ npx playwright test -g "Search box should be visible"

```

Run test based on line number –

```

Serving HTML report at http://localhost:9323. Press Ctrl+C to quit.
(base) naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabs$ npx playwright test tests/google.spec.ts:16

```

Run the specific test with annotation–

```

(base) naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabs$
(base) naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabs$ npx playwright test --grep "@smoke"
Running 2 tests using 2 workers

```

When tag doesnt exist–

```

(base) naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabs$ npx playwright test --grep "@sanity"
Error: No tests found

To open last HTML report run:
npx playwright show-report
(base) naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabs$

```

Run test other than tag mentioned–

```

○ (base) naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabs$ npx playwright test --grep-invert "@regression"

Running 2 tests using 2 workers
[2/2] [chromium] > tests/google.spec.ts:16:7 > Google Search Tests > Should show results after searching a keyword @smoke

```

All test run in parallel and headless when running this –

```

○ (base) naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabs$ npx playwright test

Running 3 tests using 3 workers
[3/3] [chromium] > tests/google.spec.ts:16:7 > Google Search Tests > Should show results after searching a keyword @smoke

```

Run all test using one worker-
Useful for sequential runs.

```

○ (base) naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabs$ npx playwright test --workers=1

Running 3 tests using 1 worker

```

By default all test runs headless-
To run in headed.

```

○ (base) naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabs$ npx playwright test --headed

Running 3 tests using 3 workers
[3/3] [chromium] > tests/google.spec.ts:10:7 > Google Search Tests > Search box should be visible @regression

```

Club multiple options–

```

○ (base) naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabs$ npx playwright test --headed --workers=1

Running 3 tests using 1 worker
[1/3] [chromium] > tests/google.spec.ts:5:7 > Google Search Tests > Homepage should load successfully @smoke

```

Debug mode-

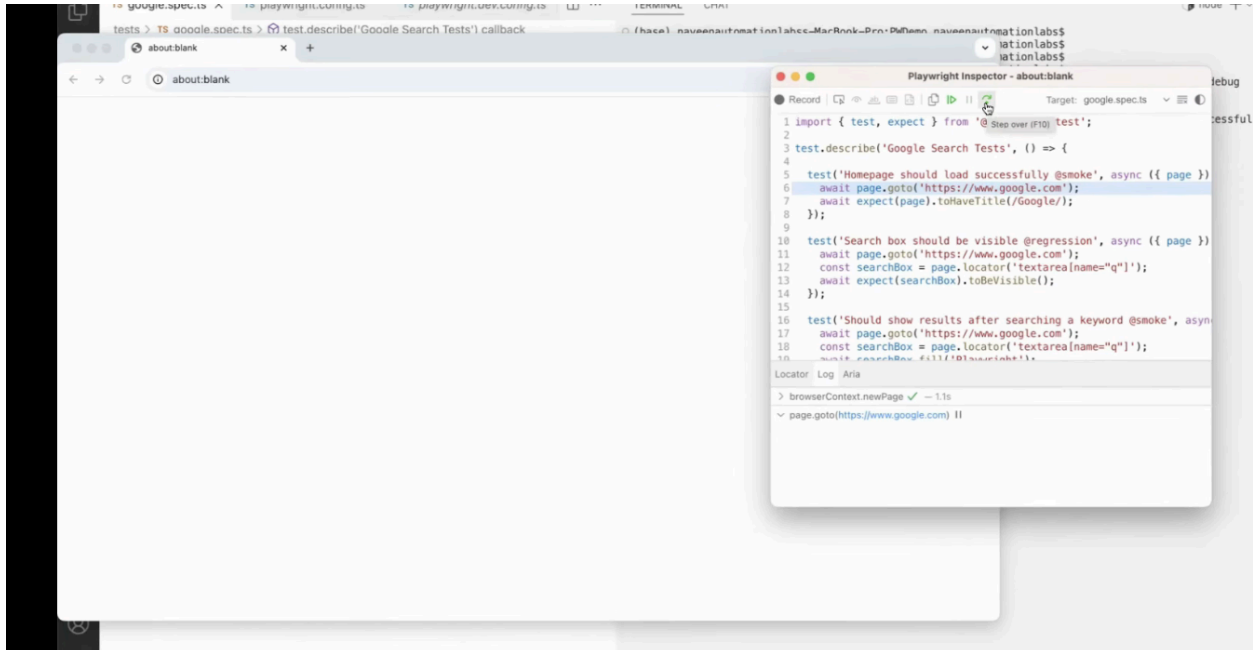
```

○ (base) naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabs$ npx playwright test --debug

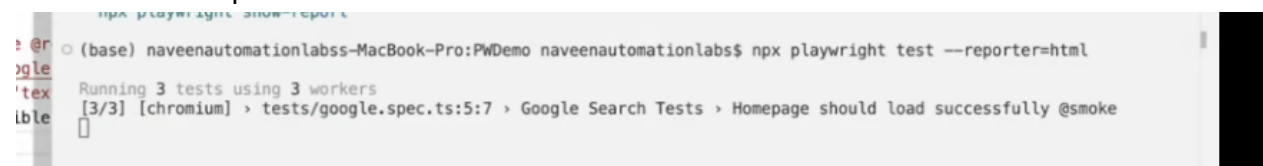
Running 3 tests using 1 worker
[1/3] [chromium] > tests/google.spec.ts:5:7 > Google Search Tests > Homepage should load successfully @smoke

```

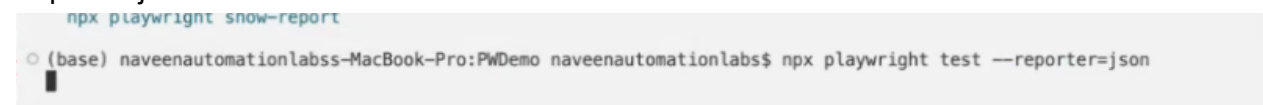
Browser plus code opened.



Generate html report –



Report in json format–



Report comes in terminal only.


```
(base) naveenautomationlabss-MacBook-Pro:~$ npx playwright test
Running 3 tests using 3 workers
3 passed (4.6s)
```

Dot reporter–

```
(base) naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabss$ npx playwright test --reporter=dot
Running 3 tests using 3 workers
...
3 passed (4.8s)
```

Fail test-

It shows dots for passed and for failed shows log. T means timeout exceeded.

```
});

test('Should show results after searching a keyword1 @smoke', async () => {
  await page.goto('https://www.google.com');
  const searchBar = page.locator('textarea[name="q1"]');
  await searchBar.fill('Playwright');
  await searchBar.press('Enter');
});
```

```
4 passed (5.4s)
(base) naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabs$ npx playwright test --reporter=dot

Running 4 tests using 4 workers
1) [chromium] > tests/google.spec.ts:24:7 > Google Search Tests > Should show results after searching a keyword1 @smoke

Test timeout of 30000ms exceeded.

Error: locator.fill: Test timeout of 30000ms exceeded.
Call log:
  - waiting for locator('textarea[name="q1"]')

25 |     await page.goto('https://www.google.com');
26 |     const searchBox = page.locator('textarea[name="q1"]');
> 27 |     await searchBox.fill('Playwright');
    |                        ^
28 |     await searchBox.press('Enter');
29 |
30 |   });
    at /Users/naveenautomationlabs/Documents/PWDemo/tests/google.spec.ts:27:21

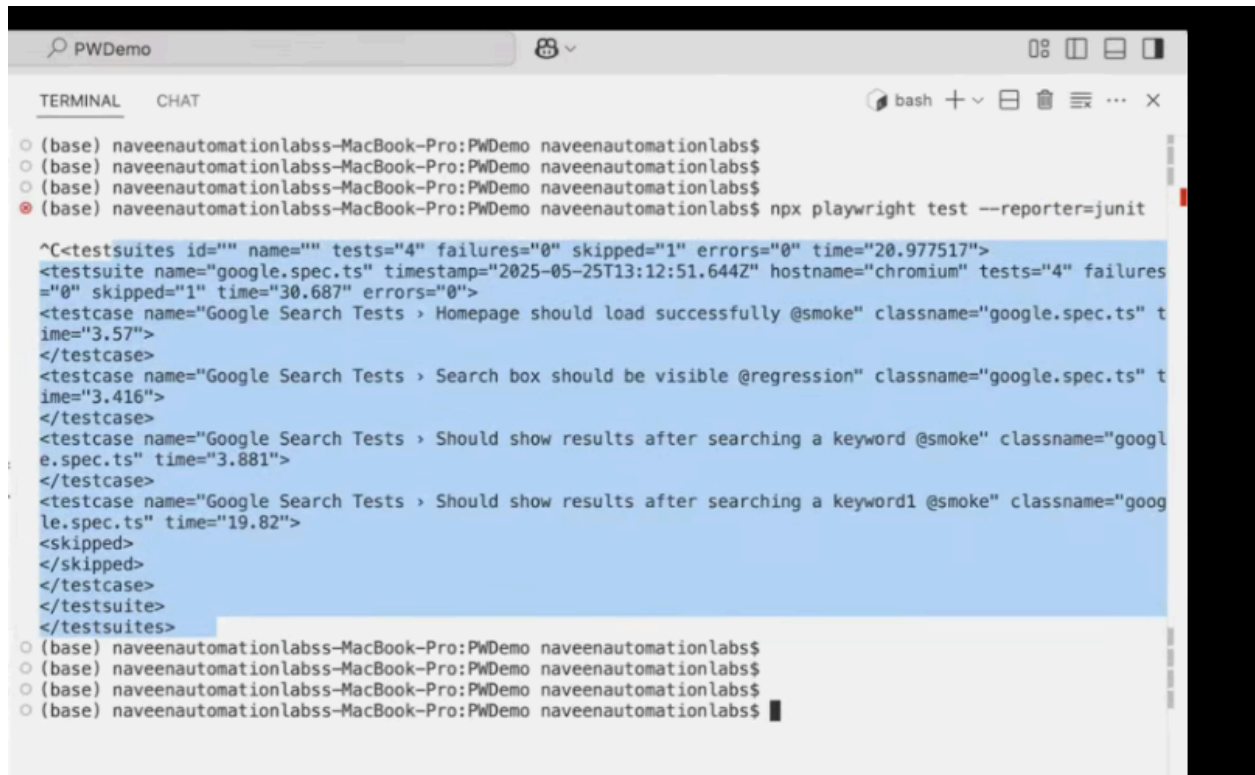
Error Context: test-results/google-Google-Search-Tests-2b09d--searching-a-keyword1-smoke-chromium/error-context.md

1 failed
[chromium] > tests/google.spec.ts:24:7 > Google Search Tests > Should show results after searching a keyword1 @smoke
3 passed (31.5s)
(base) naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabs$
```

JUnit report –

```
(base) naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabs$
(base) naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabs$ npx playwright test --reporter=junit
```

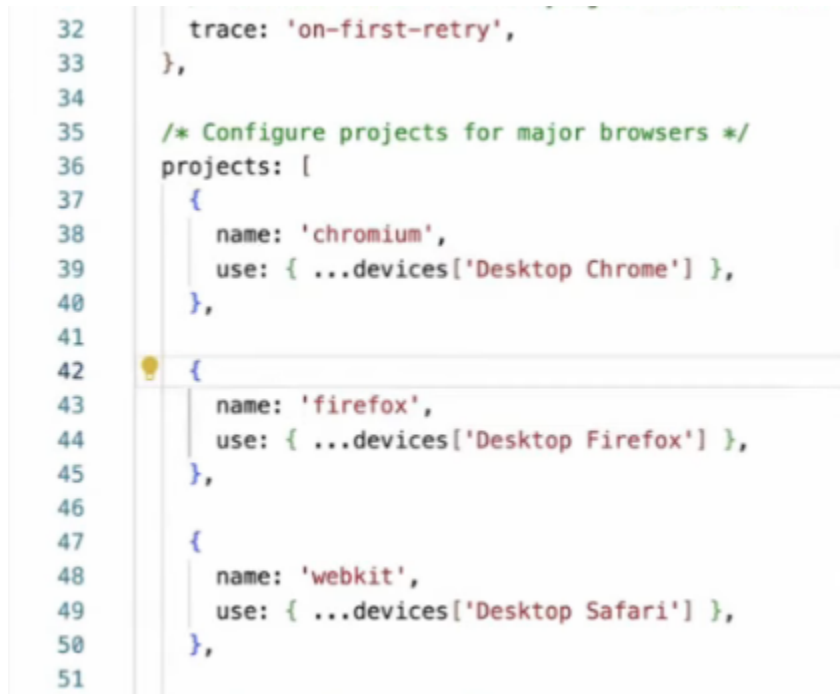
In terminal itself xml format comes.



The screenshot shows a terminal window titled 'PWDemo' with a 'TERMINAL' tab selected. The terminal displays the command `npx playwright test --reporter=junit` and its output, which is a JUnit XML report. The report indicates that 4 tests were run, all passed, with a total time of 20.977517 seconds. The tests are categorized under the suite 'google.spec.ts'. The tests include: 'Homepage should load successfully @smoke', 'Search box should be visible @regression', 'Should show results after searching a keyword @smoke', and 'Should show results after searching a keyword1 @smoke'. The terminal also shows the prompt `naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabss$` repeated several times.

```
^C<testsuites id="" name="" tests="4" failures="0" skipped="1" errors="0" time="20.977517">
<testsuite name="google.spec.ts" timestamp="2025-05-25T13:12:51.644Z" hostname="chromium" tests="4" failures
="0" skipped="1" time="30.687" errors="0">
<testcase name="Google Search Tests > Homepage should load successfully @smoke" classname="google.spec.ts" t
ime="3.57">
</testcase>
<testcase name="Google Search Tests > Search box should be visible @regression" classname="google.spec.ts" t
ime="3.416">
</testcase>
<testcase name="Google Search Tests > Should show results after searching a keyword @smoke" classname="googl
e.spec.ts" time="3.881">
</testcase>
<testcase name="Google Search Tests > Should show results after searching a keyword1 @smoke" classname="goog
le.spec.ts" time="19.82">
<skipped>
</skipped>
</testcase>
</testsuite>
</testsuites>
naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabss$
naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabss$
naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabss$
naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabss$
```

Enable all projects in pw config file –



The screenshot shows a code editor with a configuration file. The 'projects' array is defined with three entries: 'chromium', 'firefox', and 'webkit'. Each entry specifies a browser name and a device to use. The 'chromium' project uses 'Desktop Chrome', 'firefox' uses 'Desktop Firefox', and 'webkit' uses 'Desktop Safari'. The code is as follows:

```
32   trace: 'on-first-retry',
33 },
34
35 /* Configure projects for major browsers */
36 projects: [
37   {
38     name: 'chromium',
39     use: { ...devices['Desktop Chrome'] },
40   },
41
42   {
43     name: 'firefox',
44     use: { ...devices['Desktop Firefox'] },
45   },
46
47   {
48     name: 'webkit',
49     use: { ...devices['Desktop Safari'] },
50   },
51 ]
```

Runs on all projects when not specified –


```

h1 ○ (base) naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabs$
○ (base) naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabs$ npx playwright test
otc Running 12 tests using 6 workers

```

Tags also come in output –

Q		All 9	Passed 9	Failed 0	Flaky 0	Skipped 0	
							25/05/2025, 18:45:16 Total time: 19.7s
▼ google.spec.ts							
✓	Google Search Tests > Homepage should load successfully @smoke	chromium	smoke				3.6s
	google.spec.ts:5						
✓	Google Search Tests > Search box should be visible @regression	chromium	regression				3.6s
	google.spec.ts:10						
✓	Google Search Tests > Should show results after searching a keyword @smoke	chromium	smoke				4.6s
	google.spec.ts:16						
✓	Google Search Tests > Homepage should load successfully @smoke	firefox	smoke				7.1s
	google.spec.ts:5						
✓	Google Search Tests > Search box should be visible @regression	firefox	regression				8.0s
	google.spec.ts:10						
✓	Google Search Tests > Should show results after searching a keyword @smoke	firefox	smoke				11.3s
	google.spec.ts:16						
✓	Google Search Tests > Homepage should load successfully @smoke	webkit	smoke				5.2s
	google.spec.ts:5						
✓	Google Search Tests > Search box should be visible @regression	webkit	regression				4.4s
	google.spec.ts:10						
✓	Google Search Tests > Should show results after searching a keyword @smoke	webkit	smoke				5.4s
	google.spec.ts:16						

Run test on firefox–

```

Serving HTML report at http://localhost:9323. Press Ctrl+C to quit.
○ (base) naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabs$ npx playwright test --project=firefox
Running 3 tests using 3 workers
[3/3] [firefox] > tests/google.spec.ts:16:7 > Google Search Tests > Should show results after searching a keyword @smoke

```

Create own config file –

```
... playwright.dev.config.ts ×
playwright.dev.config.ts > [⌕] default > use
1  import { defineConfig } from '@playwright/test';
2
3  export default defineConfig({
4    testDir: './mytest',
5    timeout: 60000,
6    retries: 1,
7    use: {
8      headless: false,
9      viewport: { width: 1280, height: 720 },
10     baseURL: 'https://www.google.co.in',
11   },
12   projects: [
13     {
14       name: 'Chrome',
15       use: {
16         browserName: 'chromium',
17       },
18     },
19   ],
20 });
21
```

```
... google1.spec.ts X
mytest > google1.spec.ts > test.describe('Google Search Tests') callback > test('Shoulda_1 show results after searching a keyword @smoke') callback
1 import { test, expect } from '@playwright/test';
2
3 test.describe('Google Search Tests', () => {
4
5   test('Homepage should load successfully @smoke', async ({ page }) => {
6     await page.goto('https://www.google.co.in');
7     //in india google.co.in opens google.com directly.
8     await expect(page).toHaveTitle(/Google/);
9     await page.waitForTimeout(10000);
10  });
11
12  test('Search box should be visible @regression', async ({ page }) => {
13    //how to use the base url from pw config file.
14    await page.goto('/');
15    const searchBox = page.locator('textarea[name="q"]');
16    await expect(searchBox).toBeVisible();
17  });
18
19  test('Should show results after searching a keyword @smoke', async ({ page }) => {
20    //how to use the base url from pw config file.
21    await page.goto('/');
22    const searchBox = page.locator('textarea[name="q"]');
23    await searchBox.fill('Playwright');
24    await searchBox.press('Enter');
25  });
26
27  //fail one test for dot reporter.
28  test('Shoulda_1 show results after searching a keyword @smoke', async ({ page }) => {
29    //how to use the base url from pw config file.
30    await page.goto('/');
31    const searchBox = page.locator('textarea[naewrerme="q"]');
32    await searchBox.fill('Playwright');
```

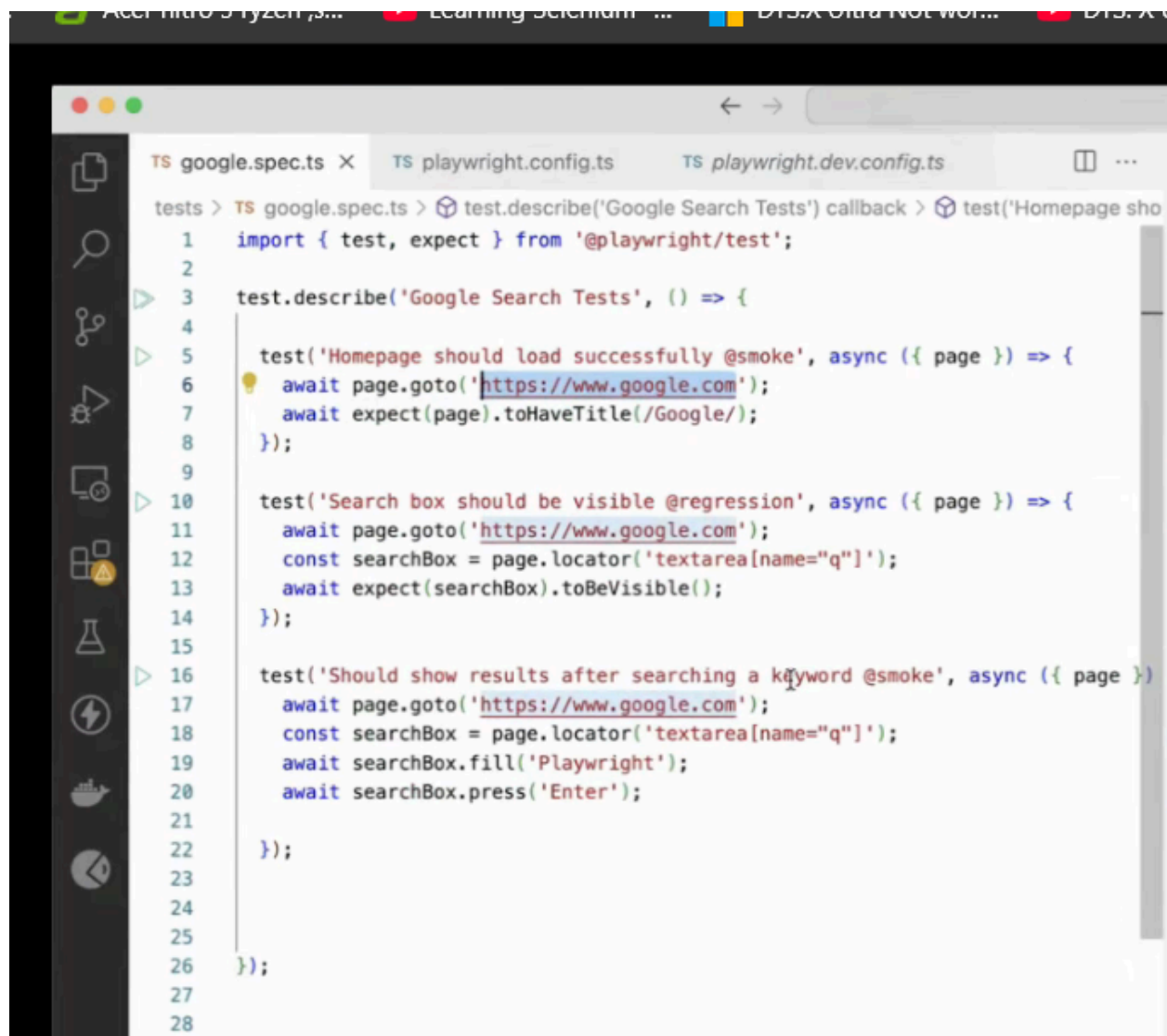
```
31    const searchBox = page.locator('textarea[naewrerme="q"]');
32    await searchBox.fill('Playwright');
33    await searchBox.press('Enter');
34  });
35
36  });
37
```

Run the config file –

All files under the test directory folder which is mentioned in the pw config file will run.

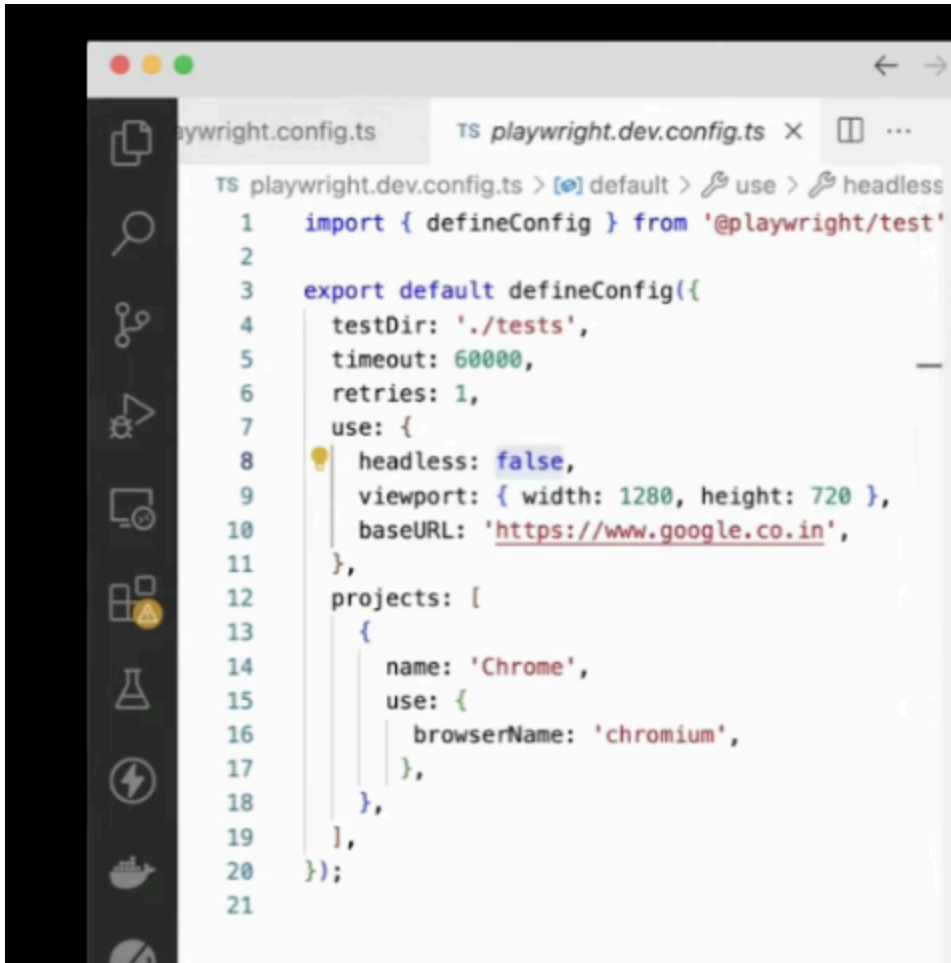
```
Serving HTML report at http://localhost:9323. Press Ctrl+C to quit.
(base) naveenautomationlabss-MacBook-Pro:PWDemo naveenautomationlabss$ npx playwright test --config=playwright.dev.config.ts --headed
```

When script has a url -



```
TS google.spec.ts x TS playwright.config.ts TS playwright.dev.config.ts
tests > TS google.spec.ts > test.describe('Google Search Tests') callback > test('Homepage sho
1 import { test, expect } from '@playwright/test';
2
3 test.describe('Google Search Tests', () => {
4
5   test('Homepage should load successfully @smoke', async ({ page }) => {
6     await page.goto('https://www.google.com');
7     await expect(page).toHaveTitle(/Google/);
8   });
9
10  test('Search box should be visible @regression', async ({ page }) => {
11    await page.goto('https://www.google.com');
12    const searchBox = page.locator('textarea[name="q"]');
13    await expect(searchBox).toBeVisible();
14  });
15
16  test('Should show results after searching a keyword @smoke', async ({ page })
17    await page.goto('https://www.google.com');
18    const searchBox = page.locator('textarea[name="q"]');
19    await searchBox.fill('Playwright');
20    await searchBox.press('Enter');
21
22  });
23
24
25
26 });
27
28
```

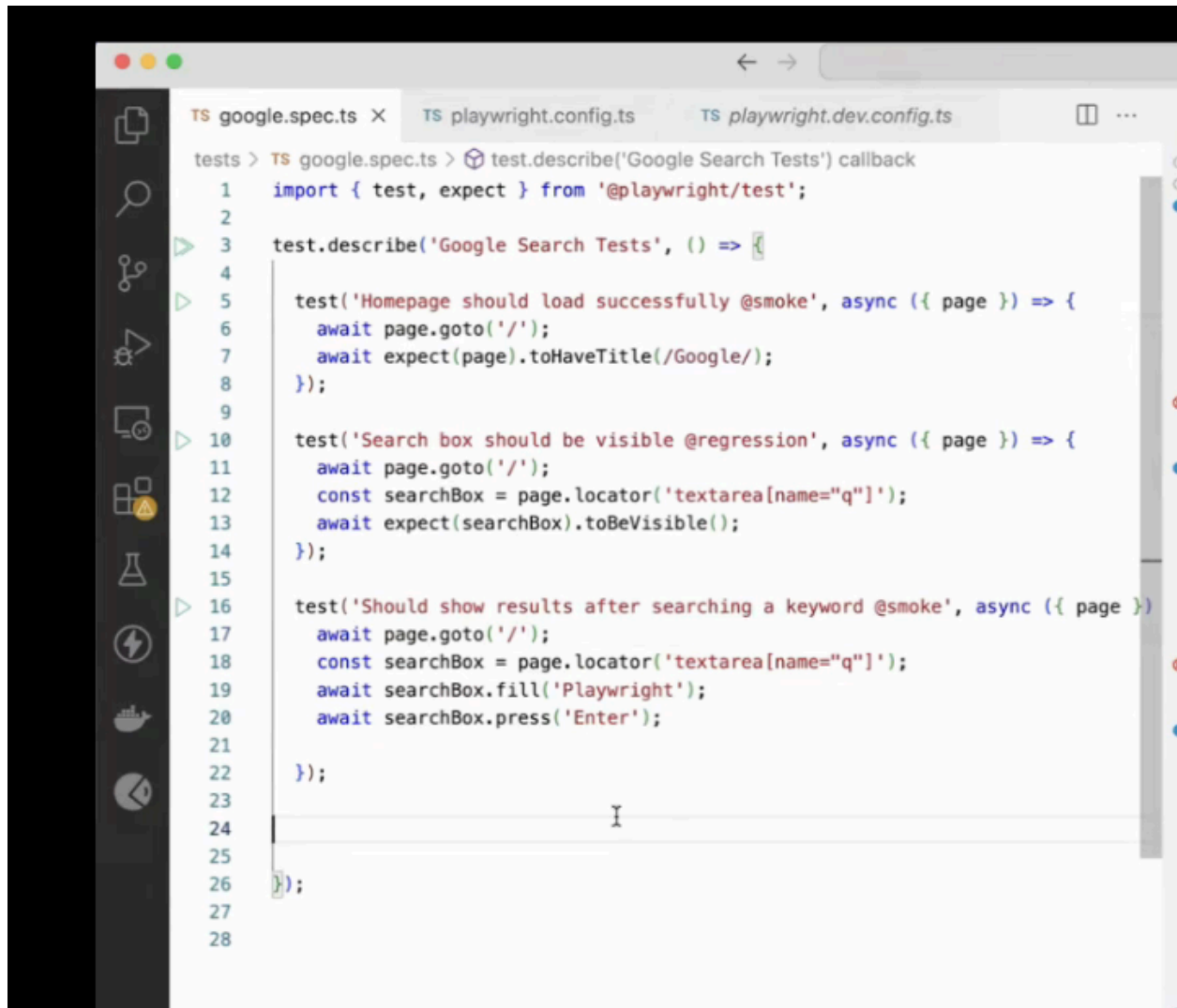
Config has another url -



```
1 import { defineConfig } from '@playwright/test'
2
3 export default defineConfig({
4   testDir: './tests',
5   timeout: 60000,
6   retries: 1,
7   use: {
8     headless: false,
9     viewport: { width: 1280, height: 720 },
10    baseURL: 'https://www.google.co.in',
11  },
12  projects: [
13    {
14      name: 'Chrome',
15      use: {
16        browserName: 'chromium',
17      },
18    },
19  ],
20 });
21
```

So preference given to the test file not config url.

How to use base url in test from config -



```
TS google.spec.ts X TS playwright.config.ts TS playwright.dev.config.ts
tests > TS google.spec.ts > test.describe('Google Search Tests') callback
1 import { test, expect } from '@playwright/test';
2
3 test.describe('Google Search Tests', () => {
4
5     test('Homepage should load successfully @smoke', async ({ page }) => {
6         await page.goto('/');
7         await expect(page).toHaveTitle(/Google/);
8     });
9
10    test('Search box should be visible @regression', async ({ page }) => {
11        await page.goto('/');
12        const searchBox = page.locator('textarea[name="q"]');
13        await expect(searchBox).toBeVisible();
14    });
15
16    test('Should show results after searching a keyword @smoke', async ({ page }) => {
17        await page.goto('/');
18        const searchBox = page.locator('textarea[name="q"]');
19        await searchBox.fill('Playwright');
20        await searchBox.press('Enter');
21    });
22
23
24
25
26 });
27
28
```

Run the file and now base url will be correctly picked up.