

Cypress Automation Interview Questions & Answers

1. What is Cypress?

Cypress is a JavaScript-based end-to-end testing framework for modern web applications.

Example:

```
describe('Cypress Test', () => {  
  it('Visits the site', () => {  
    cy.visit('https://example.com');  
  });  
});
```

2. Difference between Cypress and Selenium?

- Cypress runs in the browser, while Selenium uses a WebDriver.
 - Cypress is faster with automatic waiting.
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3. How do you install Cypress?

Run:

```
npm install cypress --save-dev
```

4. How to launch Cypress?

Run:

```
npx cypress open
```

5. Cypress commands structure?

Example:

```
cy.visit("https://example.com");  
cy.get("#username").type("testUser");  
cy.get("#password").type("securePass");  
cy.get("#loginBtn").click();
```

6. How to handle alerts in Cypress?

```
cy.on('window:alert', (str) => {  
  expect(str).to.equal('Alert message');  
});
```

7. How to select elements in Cypress?

- By ID: `cy.get("#id")`
- By Class: `cy.get(".class")`

- By Attribute: `cy.get("[name='username']")`

8. How to assert elements in Cypress?

```
cy.get("#message").should("have.text", "Success");
```

9. How to handle API testing in Cypress?

```
cy.request('GET', 'https://jsonplaceholder.typicode.com/posts/1')
  .then((response) => {
    expect(response.status).to.eq(200);
  });
```

10. How to handle iframes in Cypress?

```
cy.frameLoaded("#iframeId");
cy.iframe().find("#button").click();
```

11. How to use Cypress with fixtures?

```
cy.fixture('data.json').then((data) => {
  cy.get("#username").type(data.username);
});
```

12. How to handle multiple tabs in Cypress?

Cypress doesn't support multiple tabs, but we can simulate clicks with ``target=_self``.

13. How to run tests in headless mode?

Run:

```
npx cypress run --headless
```

14. How to use environment variables in Cypress?

Set in ``cypress.json``:

```
{ "env": { "username": "testUser" } }
```

Access in tests:

```
cy.get("#username").type(Cypress.env("username"));
```

15. What are Cypress Hooks?

Hooks are ``before()``, ``beforeEach()``, ``after()``, and ``afterEach()``.

Example:

```
beforeEach(() => {  
  cy.visit("https://example.com");  
});
```

16. How to do parallel execution in Cypress?

Using:

```
npx cypress run --record --parallel
```

17. How to handle file uploads in Cypress?

```
cy.get('input[type="file"]').attachFile('example.png');
```

18. How to handle drag and drop in Cypress?

```
cy.get("#source").drag("#target");
```

19. How to capture screenshots in Cypress?

```
cy.screenshot("screenshot-name");
```

20. How to generate Cypress test reports?

Use:

```
npm install mochawesome --save-dev
```

Run:

```
npx cypress run --reporter mochawesome
```