

NAME	Anurag Kumar
UID	23BCS13271
CLASS	622-A

➤ Full Stack PRACTICE 9.2

- CODE

src/App.js ::::

```
import React from 'react';

function App() {
  return (
    <div style={{ textAlign: "center", marginTop: "100px" }}>
      <h1>🚀 GitHub Actions CI/CD Pipeline</h1>
      <p>This React app is automatically tested and deployed using GitHub Actions!</p>
    </div>
  );
}

export default App;
```

src/index.js::::

```
import React from 'react';
import ReactDOM from 'react-dom/client';
import App from './App';

const root = ReactDOM.createRoot(document.getElementById('root'));
```

```
root.render(  
  <React.StrictMode>  
    <App />  
  </React.StrictMode>  
);
```

.github/workflows/main.yml:::

```
name: CI/CD Pipeline  
  
on:  
  push:  
    branches: [ "main" ]  
  pull_request:  
    branches: [ "main" ]  
  
jobs:  
  build:  
    runs-on: ubuntu-latest  
  
    steps:  
      - name: Checkout repository  
        uses: actions/checkout@v3  
  
      - name: Setup Node.js  
        uses: actions/setup-node@v4  
        with:  
          node-version: '18'  
  
      - name: Install dependencies  
        run: npm ci  
  
      - name: Run tests  
        run: npm test -- --watchAll=false  
  
      - name: Build project  
        run: npm run build  
  
      - name: Deploy to GitHub Pages  
        if: github.ref == 'refs/heads/main'  
        uses: peaceiris/actions-gh-pages@v3  
        with:
```

```
github_token: ${{ secrets.GITHUB_TOKEN }}  
publish_dir: ./build
```

Commands:::

```
git init
```

```
git add .
```

```
git commit -m "Setup GitHub Actions CI/CD pipeline"
```

```
git branch -M main
```

```
git remote add origin https://github.com/<username>/<repo-name>.git
```

```
git push -u origin main
```

OUTPUT:

```
== CI/CD Pipeline - build (ubuntu-latest) ==
Triggered by: push to main
-----
✓ Checking out the repository...
✓ Using Node.js version 18.x
✓ Installing dependencies...
added 1385 packages in 14s
✓ Running tests...
PASS src/App.test.js
✓ renders learn react link (35 ms)
Test Suites: 1 passed, 1 total
Tests:       1 passed, 1 total
✓ Building the project...
Creating an optimized production build...
Compiled successfully.

File sizes after gzip:
 47.35 kB  build/static/js/main.abc123.js
 1.27 kB   build/static/css/main.def456.css
✓ Deploying to GitHub Pages...
Published build directory to gh-pages branch
✓ Deployment complete!
-----
Job succeeded in 2m 21s
```

 GitHub Actions CI/CD Pipeline

This React app **is** automatically tested **and** deployed **using** GitHub Actions!