



East West University

Report

Semester: Summer-2025

Course Title: Software Engineering **Course Code:** CSE412 **Sec:** 02

Group No: 07

Group Members:

Student Name	Student Id
Md. Jubayer Hasan	2022-2-60-042
Fariha Khandaker Moon	2022-2-60-047
Md. Shahariar Rahman Rafi	2022-1-60-176
Mahfuz Uddin Ahmed	2023-3-60-207
Md. Shishir Khondoker	2021-2-60-080

Submitted to-

NISHAT TASNIM NILOY

Lecturer

Department of Computer Science & Engineering

East West University

Date of Submission: 23 June, 2025

- **Analyze three application software**

1. GeeksforGeeks
2. Programiz
3. W3Schools

- **Common 10 prominent features of our three application software**

1. Code editor & online compiler
2. Articles & tutorials
3. Provide different courses
4. Interview preparation
5. Quizzes & MCQs
6. Live and recorded classes
7. Coding contests
8. No login required for beginners
9. Real world projects
10. Certification opportunities

- **5 characteristics and properties (non-functional features):**

- 1. Usability**

→ Simple, beginner-friendly UI; easy navigation for all user levels.

- 2. Accessibility**

→ Available on mobile & desktop, works across all modern browsers.

- 3. Performance**

→ Fast page load, real-time code execution without major lags.

- 4. Scalability**

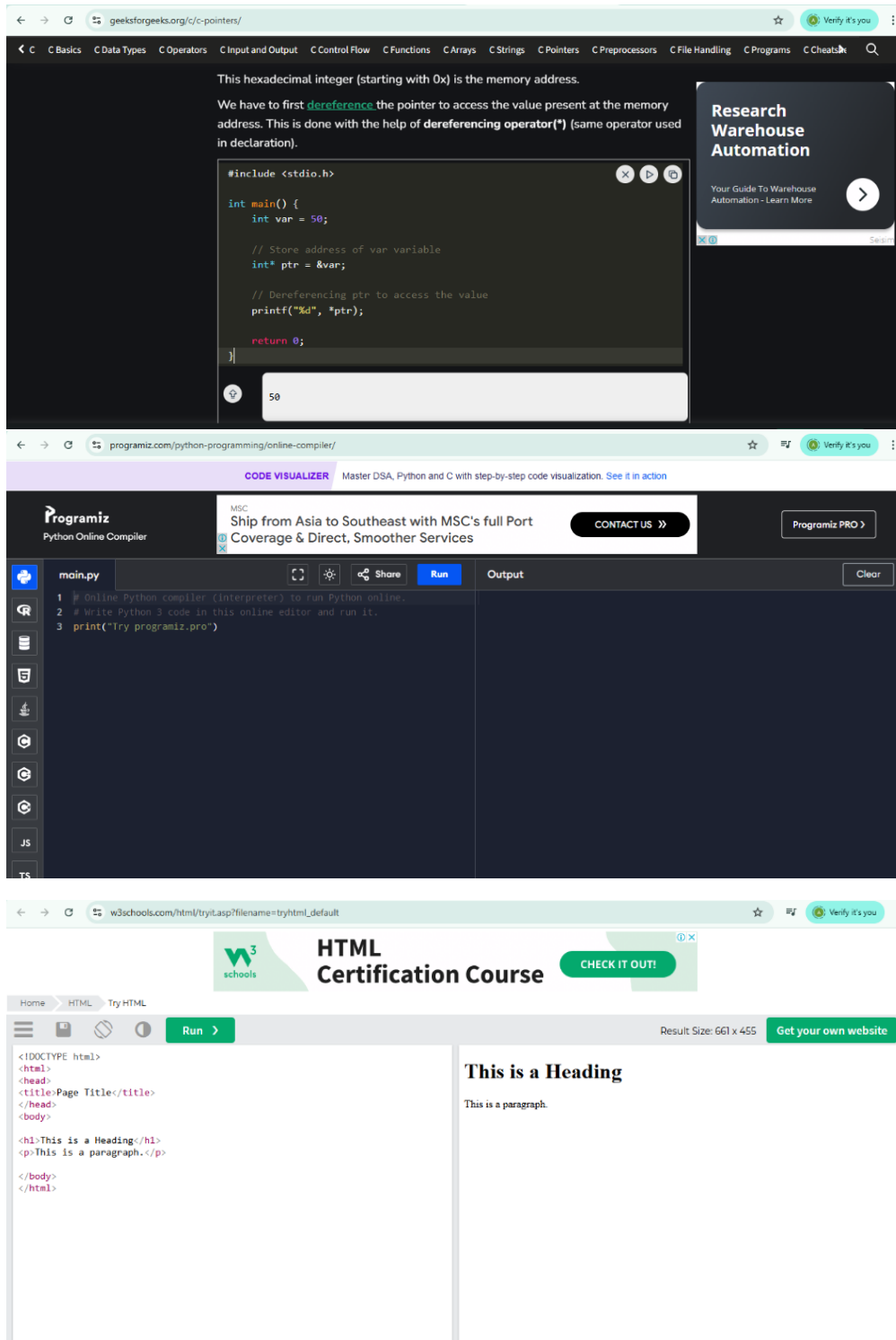
→ Can handle thousands of users simultaneously (especially GFG during contests).

- 5. Reliability**

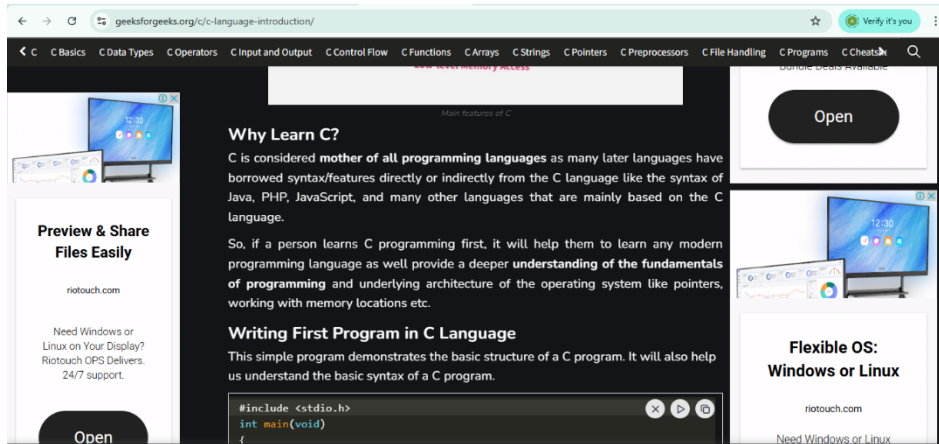
→ Consistently available content, minimal downtime, well-maintained resources.

- Screenshots

1. Code editor & online compiler :



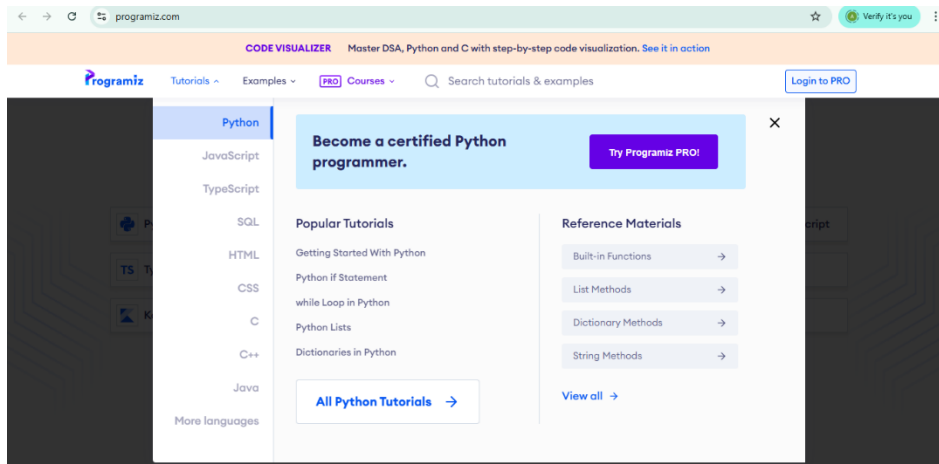
2. Articles & tutorials



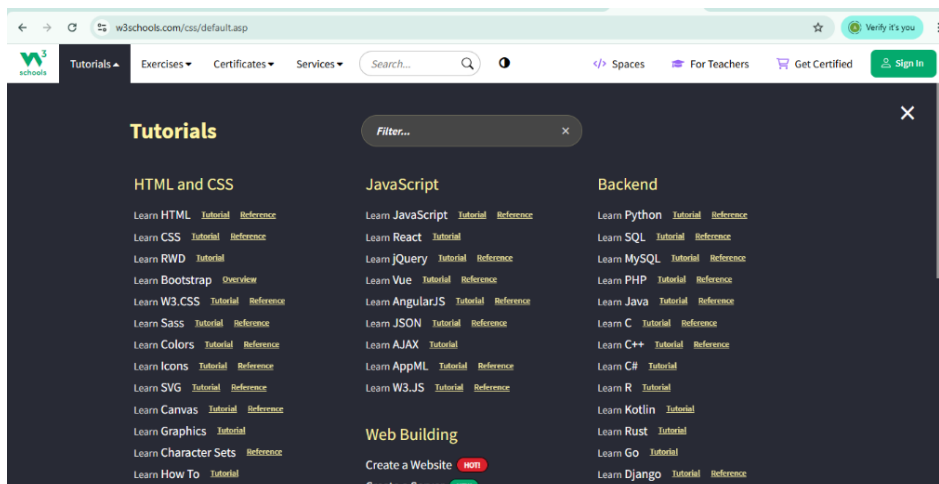
The screenshot shows the 'C Language Introduction' page on GeeksforGeeks. The browser address bar displays 'geeksforgeeks.org/c/c-language-introduction/'. A navigation bar at the top lists various C topics: C Basics, C Data Types, C Operators, C Input and Output, C Control Flow, C Functions, C Arrays, C Strings, C Pointers, C Preprocessors, C File Handling, C Programs, and C Cheatsheet. The main content area is titled 'Why Learn C?' and explains that C is the 'mother of all programming languages'. It includes a section 'Writing First Program in C Language' with a code snippet:

```
#include <stdio.h>
int main(void)
{
```

 The page also features sidebars with 'Preview & Share Files Easily' and 'Flexible OS: Windows or Linux' sections, both with 'Open' buttons.



The screenshot shows the 'Python Tutorials' page on Programiz. The browser address bar displays 'programiz.com'. The page has a navigation bar with 'Tutorials', 'Examples', 'COURSES', and a search bar. A sidebar on the left lists various programming languages: Python, JavaScript, TypeScript, SQL, HTML, CSS, C, C++, Java, and 'More languages'. The main content area is titled 'Become a certified Python programmer.' and includes a 'Try Programiz PRO!' button. It also features 'Popular Tutorials' and 'Reference Materials' sections with links to various Python topics.



The screenshot shows the 'Tutorials' page on W3Schools. The browser address bar displays 'w3schools.com/css/default.asp'. The page has a navigation bar with 'Tutorials', 'Exercises', 'Certificates', and 'Services', along with a search bar and links to 'Spaces', 'For Teachers', 'Get Certified', and 'Sign In'. The main content area is titled 'Tutorials' and features a 'Filter...' button. It lists various tutorials under three categories: 'HTML and CSS', 'JavaScript', and 'Backend'. Each category has a list of links to specific tutorials, such as 'Learn HTML', 'Learn CSS', 'Learn JavaScript', 'Learn React', 'Learn jQuery', 'Learn Python', 'Learn SQL', 'Learn MySQL', 'Learn PHP', 'Learn Java', 'Learn C', 'Learn C++', 'Learn C#', 'Learn R', 'Learn Kotlin', 'Learn Rust', 'Learn Go', and 'Learn Django'.

3. Courses:

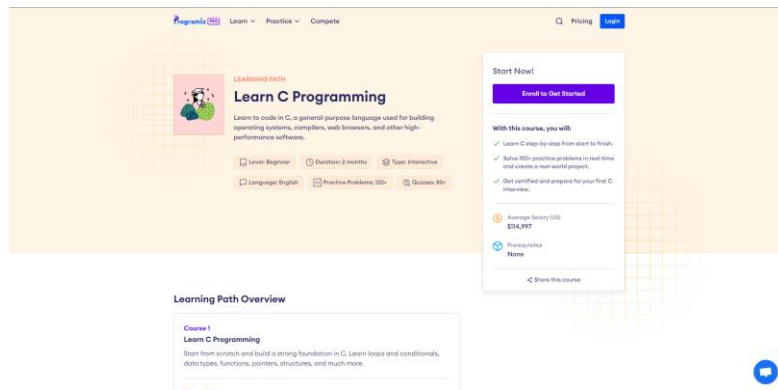
GeeksforGeeks

The screenshot shows the landing page for the 'DSA to Development: A Complete Guide' course on the GeeksforGeeks website. The page has a dark theme with a large, stylized graphic of a double-headed arrow made of dots. The course title is prominently displayed at the top left. Below the title, there are two bullet points: 'Comprehensive Learning' and 'Industry Readiness'. A green button labeled 'Login To Register' and a white button labeled 'Download Brochure' are visible. A small text line says 'Recommended for Students and Working Professionals'. At the bottom, there is a 'Course Description' section with a small video thumbnail showing a man speaking. A contact information box at the bottom center provides a WhatsApp number: '+91-9560209327'. The top navigation bar includes links for 'Courses', 'Placement', 'Data Science', 'GATE', and 'Practice'.

W3Schools

The screenshot displays the 'Certification Course Catalog' on the W3Schools website. The page features a navigation bar with various categories like 'Full Access', 'Today's deals', 'Career Paths', 'Certification Courses', 'Certification Exams', 'W3Schools Plus', 'Servers', and 'For Teachers'. The main content area is titled 'Certification Course Catalog' and includes a 'Filters' section on the left with options for 'Price' (From, To) and 'Product type'. The courses are listed in a grid, each with a thumbnail, title, rating, and price. The courses shown are: 'FULL ACCESS' (\$499.00), 'Data Analytics Program' (\$190.00), 'Front-End Developer Program' (\$190.00), 'Modern Web Developer Program' (\$235.00), 'HTML Course', 'CSS Course', 'JavaScript Course', and 'Python Course'. A small notification at the bottom left states 'Someone from Mount Vernon, US brought Learn Python 1 day ago'.

Programiz:



Comparison:

Feature	GeeksforGeeks	Programiz	W3Schools
Interactive Coding	Yes	Yes	Yes
Certification	Yes	Yes	Limited
Dark Mode	Yes	Yes	Yes
Mobile App	Yes	Yes	No
Beginner-Friendly	Medium	High	High
Tutorials Depth	Very High	Medium	Medium
Practice Problems	Extensive	Moderate	Limited
UI/UX Design	Moderate	High	High
Number Of Language	10+	5+	5+
Community Support	Strong	Moderate	Low

Conclusion & Favorite:

While all three platforms serve educational purposes well, GeeksforGeeks stands out due to its vast library, problem-solving sections, and deep tutorial. Although Programiz offers a better beginner-friendly UI and W3Schools is known for simplicity, GeeksforGeeks is the most resource-rich, making it our group's favorite