

SUMMER INTERNSHIP

NAME : SWEDHA S

COLLEGE NAME : PSNA COLLEGE OF ENGINEERING AND TECHNOLOGY

COURSE : B.TECH

BRANCH : COMPUTER SCIENCE AND BUSINESS SYSTEM

REGISTER NUMBER : 921321244056

WEEKLY OVERVIEW OF INTERNSHIP ACTIVITIES

WEEK 1 : WEB DEVELOPMENT

WEEK 2 : INTRODUCTION TO HTML

WEEK 3 : INTRODUCTION TO CSS

WEEK 4 : INTRODUCTION TO JAVASCRIPT

WEEK 5 : INTROCUCTION TO BACKEND

WEEK 6 : MINOR PROJECT (RESPONSIVE CALCULATOR)

WEEK 7 : MAJOR PROJECT (RESPONSIVE VALIDATION FORM)

WEB DEVELOPMENT :

- Web development refers to the creating, building and maintaining of websites .

Web Development can be classified into two ways:

- Frontend Development
- Backend Development

FRONTEND DEVELOPMENT

CSS , JavaScript , BootStrap , HTML

BACKEND DEVELOPMENT

- Java
- Python
- Node.js
- PHP

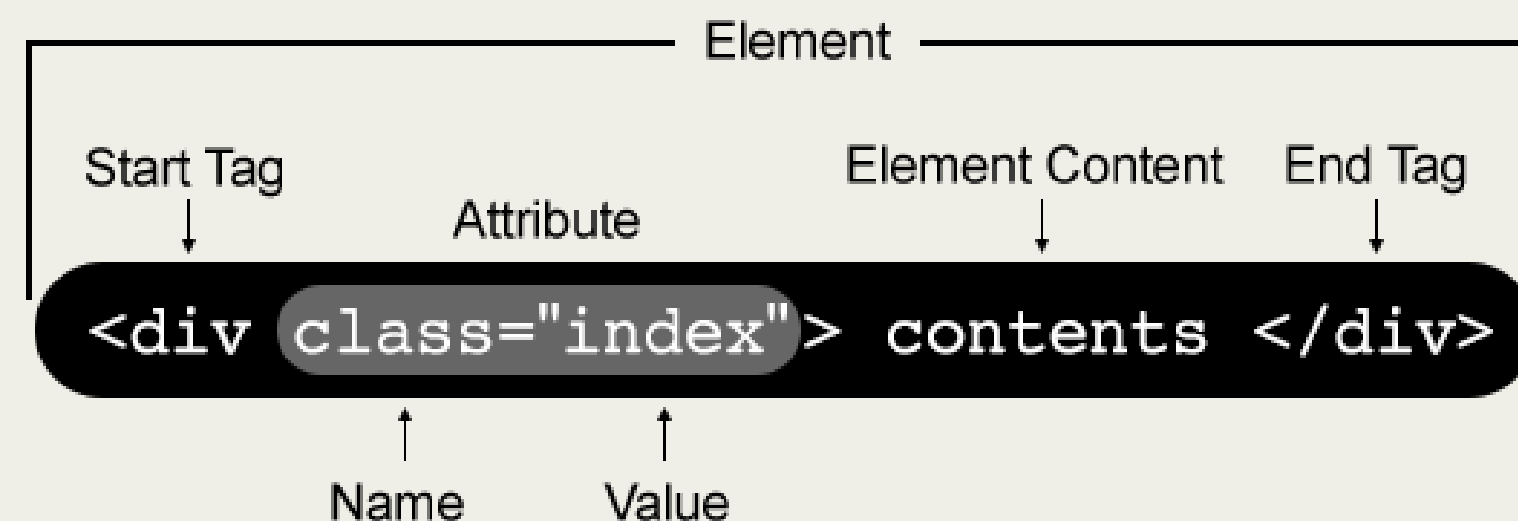


INTRODUCTION TO HTML :

- HTML stands for Hypertext Markup Language.
- It is a fundamental building block of the World Wide Web and is used to describe the structure of documents and web pages using a system of tags and attributes.

ANATOMY OF HTML:

1. **Opening tag:** Name of the element wrapped in opening and closing angle brackets.
2. **Closing tag:** It includes a forward slash before the element name.
3. **Content:** This is the content of the element, which in this case, is just text.
4. **Element:** The opening, closing tag and the content together comprise the element.

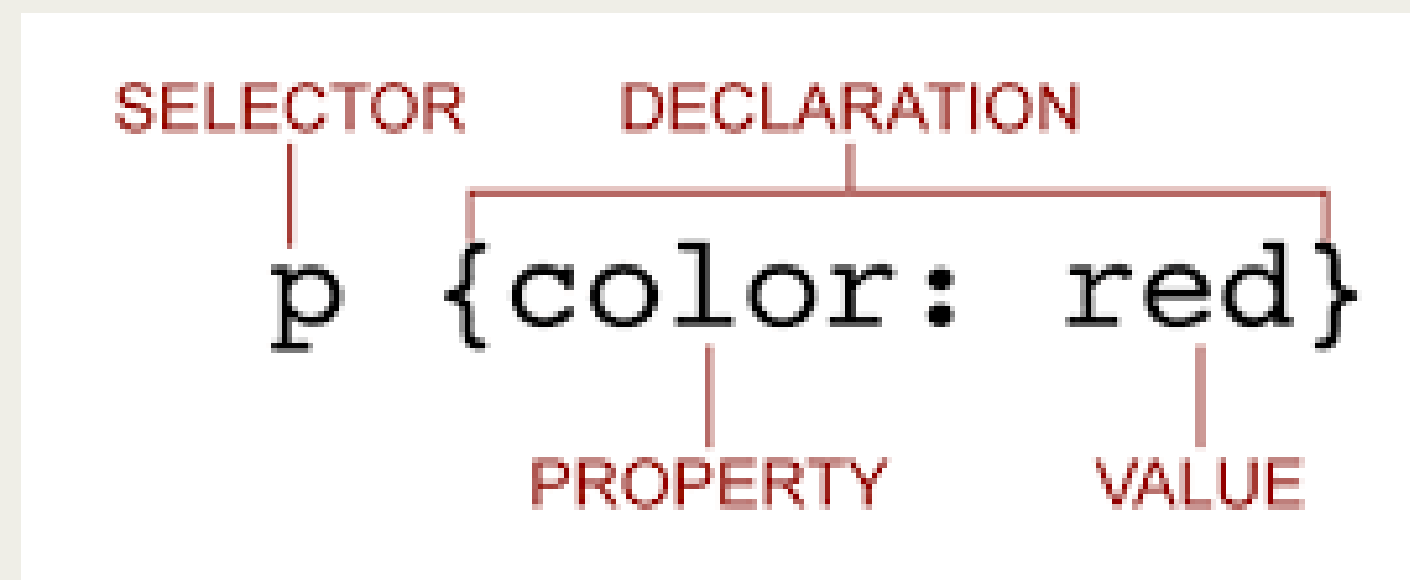


INTRODUCTION TO CSS :

- CSS stands for Cascading Style Sheets.
- CSS describes how HTML elements are to be displayed on screen , paper , or in the media.

ANATOMY OF CSS :

1. The selector points to the HTML element we want to style .
2. The declaration block contains one or more declarations separated semicolons .
3. Each declaration includes a CSS property name and a value , separated by semicolons.
4. Multiple CSS declarations are separated with semicolons , and declaration blocks are surrounded by curly braces.

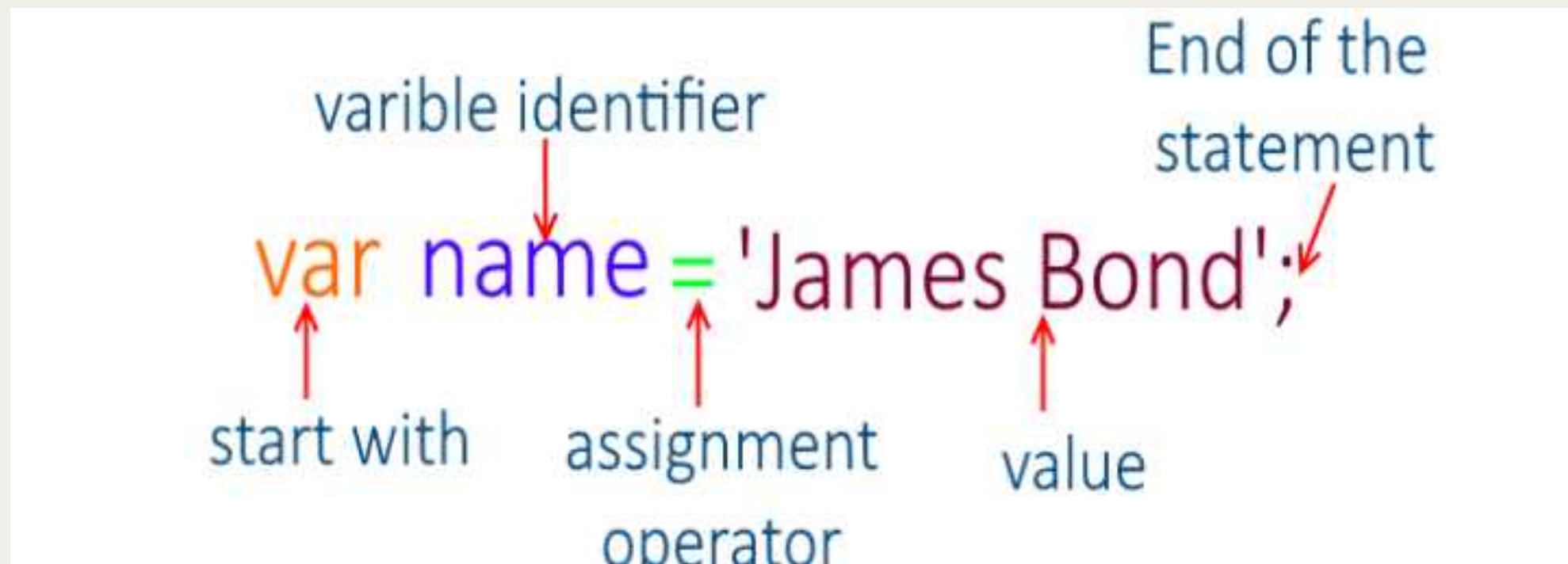


INTRODUCTION TO JAVASCRIPT :

- JavaScript is a programming language that allows you to implement complex things on web pages.
- JavaScript and Java are completely different languages, both in concept and design.

JS VARIABLES :

1. In a programming language, variables are used to store data values.
2. JavaScript uses the keywords var, let and const to declare variables.
3. An equal sign is used to assign values to variables.



The diagram illustrates the components of a JavaScript variable declaration: `var name = 'James Bond';`. Annotations with red arrows point to specific parts of the code:

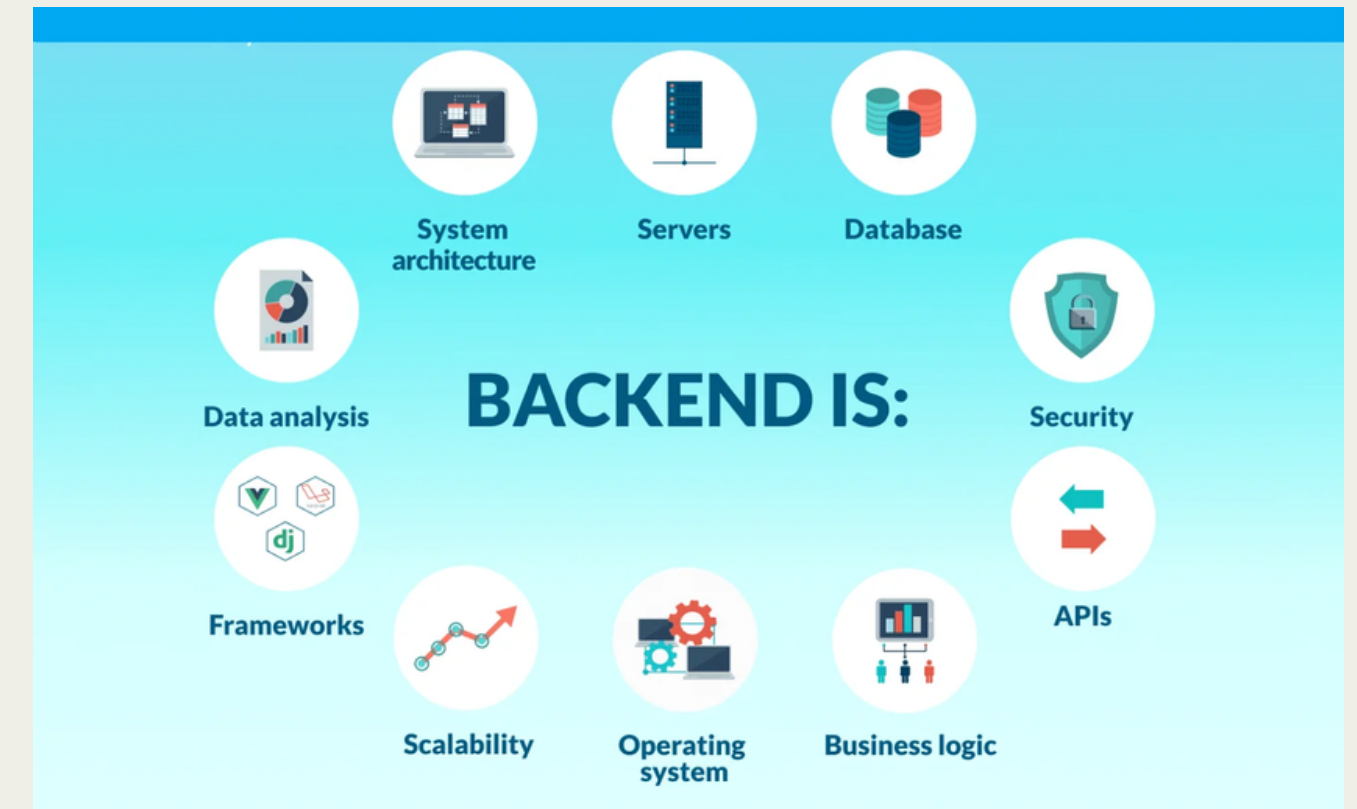
- variable identifier**: Points to the word `name`.
- start with**: Points to the keyword `var`.
- assignment operator**: Points to the equals sign `=`.
- value**: Points to the string `'James Bond'`.
- End of the statement**: Points to the semicolon `;`.

INTRODUCTION TO BACKEND :

Back-end development means working on server-side software, which focuses on everything you can't see on a website. Back-end developers ensure the website performs correctly, focusing on databases, back-end logic, application programming interface (APIs), architecture, and servers.

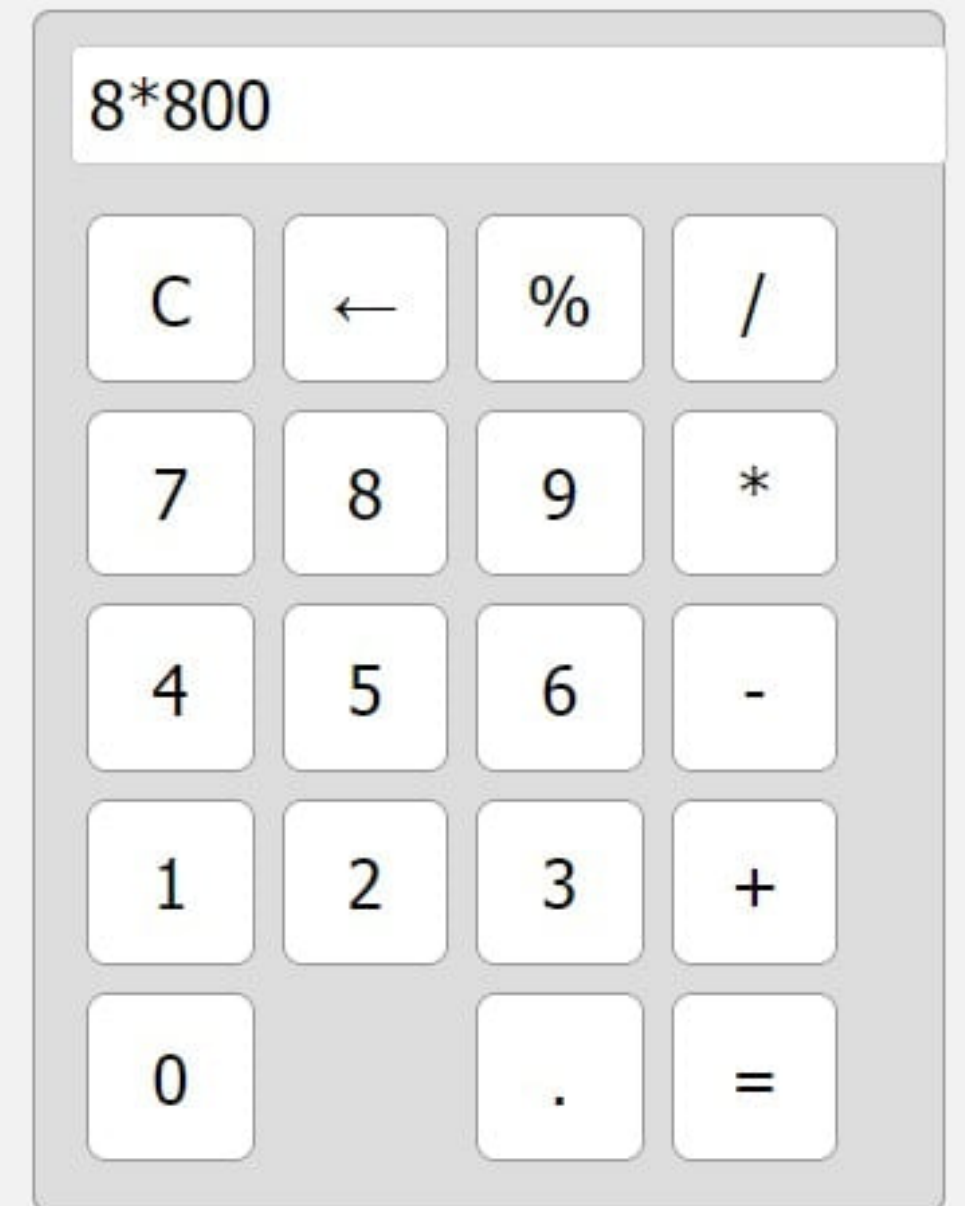
WHAT DOES A BACK-END DEVELOPERS DO ?

- Build and maintain websites
- Write high-quality code
- Perform quality assurance (QA) testing
- Assess efficiency and speed
- Troubleshoot and debug
- Train and support



MINOR PROJECT : RESPONSIVE CALCULATOR

- Utilizing HTML for the project.
- Employing CSS and Bootstrap (Flexbox or Grid) to enhance styling and layout.
- In JavaScript, placing a primary focus on implementing event listeners, multiple functions, loops, if/else statements, and the manipulation of InnerText/InnerHtml.
- Refraining from using any external libraries.
- Infusing creativity into the project.



MAJOR PROJECT : RESPONSIVE VALIDATION FORM

1. Implementation of HTML.
2. Incorporation of CSS and Bootstrap for styling.
3. Strategic use of JavaScript, with a primary focus on eventlisteners (onSubmit and onChange), multiple functions, loops, and conditional statements (if/else)
4. Integration of comments at strategic points to enhance code readability collaboration and understanding.

Form Validation

User Registration

Full Name:

Enter your full name!

Phone Number:

Please enter a valid 11-digit phone number.

Email:

Please enter a valid email address.

Address:

Enter your address!

[← Back](#)

CERTIFICATE

