Training Day 3

23rd June 2025

TOPICS COVERED

- **CSS Flexbox Model**

Flexbox is a CSS layout module that provides an efficient way to align and distribute space among items in a container.

Key Properties:

display: flex;

flex-direction: row | column

justify-content: flex-start | center | space-between | space-around | space-evenly

align-items: flex-start | center | stretch | flex-end

flex-wrap: wrap | nowrap

gap: defines spacing between flex items

Use Case:

Aligning cards, navbars, buttons, and content sections responsively

- **JavaScript Introduction**

JavaScript is a scripting language used to create interactive behavior on web pages.

- **Variables in JavaScript**

Variables store data values. They can be declared using:

var (function scoped)

let (block scoped)

const (block scoped and constant)

Example:

let name = "Navneet";

const age = 20;

- **Data Types**

String, Number, Boolean, Undefined, Null, Object, Array

- **Operators & Expressions**

Arithmetic: +, -, *, /, %

Comparison: ==, ===, !=, <, >, <=, >=

Logical: &&, ||, !

Assignment: =, +=, -=, *=, /=

TOOLS USED

Visual Studio Code (VS Code)

Chrome Browser (Console for JavaScript)

TASK

Implement a simple icon framework using HTML and CSS.

#HTML Code

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>Icon Framework</title>
  <link rel="stylesheet" href="style.css">
  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.5.0/css/all.min.css">
</head>
<body>
  <div class="container">
  <div class="box">
    <i class="fas fa-home"></i>
    <p>Home</p>
  </div>
  <div class="box">
```

```html
      <i class="fas fa-user"></i>

      <p>Profile</p>

    </div>

    <div class="box">

      <i class="fas fa-envelope"></i>

      <p>Messages</p>

    </div>

    <div class="box">

      <i class="fas fa-cog"></i>

      <p>Settings</p>

    </div>

  </div>

</body>

</html>
```

#CSS code

```css
body {

  font-family: 'Franklin Gothic Medium', 'Arial Narrow', Arial, sans-serif;

  background-color: #ce6a6c;

  display: flex;

  justify-content: center;

}

.container {

  display: flex;

  position:relative;

  top:30px;

  justify-content: center;

  gap: 30px;

  background: #edada3;
```

```css
  padding: 20px 40px;

  border-radius: 10px;

}

.box {

  text-align: center;

  color: #333;

  cursor: pointer;

  transition: transform 0.2s;

}

.box:hover {

  transform: scale(1.1);

  color: #843b62;

}

.box i {

  font-size: 30px;

  margin-bottom: 5px;

}
```