DAY 12

INDEX.HTML

<body> content:

Dark Mode Toggle:

```
<div class="toggle-wrapper">
  <button id="toggleTheme" class="emoji-toggle">
2</button>
</div>
```

- This is the moon emoji button (2)
- When you click it, it switches between light and dark themes

Main Layout:

```
<div class="container">
  <div class="age-container">
```

This is the main box holding two parts: left column and right stack.

LEFT COLUMN (Info Display Boxes):

```
<div class="circle-box">
  COMPLETED
  <div class="progress" id="completed">--%</div>
</div>
```

Shows how much of your current age year is completed as a percentage

```
<div class="circle-box">
  NEXT BIRTHDAY
  <div class="progress" id="next-birthday">-- days</div>
</div>
```

Shows how many days are left until your next birthday

RIGHT STACK (User Input & Results):

Age Circles:

```
<div class="black-circle">
  <span class="years">--</span>
  Years
  </div>
```

• Shows your age in black circular indicators: years, months, and days

Date Input & Buttons:

<input type="date" id="dob" /> <button onclick="calculateAge()">Calculate Age</button>

- Lets the user enter their date of birth
- Then they click the button to calculate age

<button onclick="copyToClipboard()">Copy it</button>
<button onclick="window.print()">Print it</button>

- Copy it: Copies your age results to clipboard
- Print it: Opens the browser's print dialog to print the result

Results Section:

```
YOUR AGE IS: --
YOUR AGE IN MONTH IS: --
```

Displays the final calculated age results

JavaScript:

```
<script src="SCRIPT.JS"></script>
```

This line connects the JavaScript file (SCRIPT.JS) which:

- Calculates your age
- Updates the text and indicators
- Manages the dark mode switch
- Handles copy and print features

STYLE.CSS

```
body {
  font-family: Arial, sans-serif;
  background-color: #f4f4f4;
  margin: 0;
```

- Uses Arial font
- Sets a light gray background
- Removes default margin for a cleaner layout

DARK MODE TOGGLE BUTTON (Moon Emoji)

```
.emoji-toggle {
  position: absolute;
  top: 20px;
  right: 20px;
```

```
background: none;
border: none;
font-size: 28px;
cursor: pointer;
transition: transform 0.2s ease;
}
.emoji-toggle:hover {
transform: scale(1.1);
}
```

- Places the moon emoji button in the top-right corner
- Makes it look clean (no background/border)
- Adds a zoom effect when you hover over it

```
.toggle-wrapper {
  display: flex;
  justify-content: flex-end;
  margin-bottom: 10px;
}
```

• Aligns the toggle button to the right side

DARK MODE STYLING

```
.dark-mode {
  background: linear-gradient(135deg, #0a0a0a, #041e14, #033023);
  background-repeat: no-repeat;
  background-attachment: fixed;
  background-size: cover;
  color: white;
}
```

- Changes the page background to a dark green/black gradient
- Sets text color to white

```
.dark-mode .container {
  background-color: rgb(5, 33, 33);
  box-shadow: none;
}
.dark-mode .black-circle {
  background-color: black;
}
.dark-mode input[type="date"],
.dark-mode button {
  background-color: black;
  color: white;
  border-color: #444;
}
.dark-mode .circle-box {
  background-color: black;
  color: white;
}
```

• Adjusts container, buttons, circles, and date input to match dark mode

MAIN CONTAINER

```
.container {
   max-width: 550px;
   margin: 30px auto;
   padding: 20px;
   background-color: whitesmoke;
   border-radius: 12px;
   box-shadow: 0 0 15px rgba(0, 0, 0, 0.2);
}
```

- Creates a white card in the center
- Adds padding, rounded corners, and shadow for a modern look

LAYOUT STRUCTURE

```
.age-container {
    display: flex;
    align-items: flex-start;
    gap: 15px;
}
.left-column {
    display: flex;
    flex-direction: column;
    gap: 20px;
    width: 180px;
}
.right-stack {
    display: flex;
    flex-direction: column;
    align-items: center;
    flex: 1;
}
```

- Makes the layout a **two-column design** (left for stats, right for input/results)
- Uses flex to space and stack items properly

STATS BOXES (LEFT COLUMN)

```
.circle-box {
   background: white;
   padding: 15px;
   border-radius: 10px;
   text-align: center;
   box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}
```

 White box with soft shadow and rounded corners for Completed % and Next Birthday

```
.progress {
   margin-top: 10px;
   margin-left: 20px;
   border: 2px solid #aaa;
   border-radius: 50%;
   width: 100px;
   height: 100px;
   display: flex;
   align-items: center;
   justify-content: center;
   font-weight: bold;
}
```

• Creates round progress indicators

BLACK AGE CIRCLES (Years, Months, Days)

```
.black-circles {
display: flex;
justify-content: center;
gap: 15px;
margin-bottom: 5px;
.black-circle {
width: 100px;
height: 100px;
background-color: black;
color: white;
border-radius: 50%;
display: flex;
flex-direction: column;
align-items: center;
justify-content: center;
font-size: 20px;
```

- Displays 3 black circular boxes in a row
- Shows the user's years, months, and days

INPUT & BUTTON SECTION

```
.right-column {
    display: flex;
    flex-direction: column;
    align-items: center;
    gap: 10px;
    margin-top: 0;
    flex: 1;
}
.input-group {
    display: flex;
    gap: 10px;
    margin-bottom: 10px;
```

```
input[type="date"] {
  padding: 10px;
  font-size: 16px;
  width: 200px;
  border: 2px solid #000;
  border-radius: 8px;
}
```

• Styles the date input and makes it look neat

```
button {
  padding: 10px 20px;
  font-size: 16px;
  background-color: #007bff;
  color: white;
  border: none;
  border-radius: 8px;
  cursor: pointer;
}
button:hover {
  background-color: #0056b3;
}
```

- Styles the buttons (blue background, white text)
- On hover, button turns darker blue

```
.btn-group {
    display: flex;
    gap: 10px;
    margin: 10px 0;
}
.result {
    font-size: 18px;
    font-weight: bold;
    text-align: center;
}
```

- Arranges the Copy/Print buttons
- Styles the **result text** that shows your age

SCRIPT.JS

1. Function: calculateAge()

This is the main function that runs when the user selects a date and clicks the button.

const dob = document.getElementById("dob").value;

• Grabs the birthdate selected by the user.

if (!dob) return alert("Please select your date of birth!");

• If no date is selected, it shows an alert: "Please select your date of birth!"

Step-by-step Age Calculation

```
const birthDate = new Date(dob);
const today = new Date();
```

- Converts the user's birthdate into a real Date object.
- Gets today's date.

```
let years = today.getFullYear() - birthDate.getFullYear();
let months = today.getMonth() - birthDate.getMonth();
let days = today.getDate() - birthDate.getDate();
```

Calculates difference in years, months, and days between today and the birthdate.

Handling Negative Days or Months

```
if (days < 0) {
  months--;
  days += new Date(today.getFullYear(), today.getMonth(), 0).getDate();
}</pre>
```

• If the day is negative, borrow days from the previous month.

```
if (months < 0) {
  years--;
  months += 12;
}</pre>
```

• If months are negative, subtract a year and adjust months.

Convert Age to Total Months

```
const totalMonths = years * 12 + months;
```

Just multiplying years by 12 and adding extra months = total age in months.

Display the Results on Screen

```
document.querySelector(".years").textContent = years;
document.querySelector(".months").textContent = months;
document.querySelector(".days").textContent = days;
```

• Sets values inside the black circles for Years, Months, and Days.

```
document.getElementById("age-result").textContent = `YOUR AGE IS: ${years} Years ${months} Months
${days} Days`;
document.getElementById("age-months-result").textContent = `YOUR AGE IN MONTH IS: ${totalMonths}
Months`;
```

• Shows age results in full sentence form under the input.

Next Birthday Countdown

const nextBirthday = new Date(today.getFullYear(), birthDate.getMonth(), birthDate.getDate());
if (nextBirthday < today) nextBirthday.setFullYear(today.getFullYear() + 1);</pre>

- Creates a date for your next birthday.
- If this year's birthday already passed, move it to next year.

```
const diffTime = nextBirthday - today;
const diffDays = Math.ceil(diffTime / (1000 * 60 * 60 * 24));
document.getElementById("next-birthday").textContent = `${diffDays} days`;
```

Calculates how many days are left until your next birthday and displays it.

Percentage of Year Completed Since Last Birthday

```
const yearStart = new Date(today.getFullYear(), birthDate.getMonth(), birthDate.getDate());
const nextYear = new Date(yearStart);
nextYear.setFullYear(yearStart.getFullYear() + 1);
```

- yearStart: the birthday this year.
- nextYear: birthday next year.

```
const completedPercent = ((1 - (nextBirthday - today) / (nextYear - yearStart)) * 100).toFixed(1);
document.getElementById("completed").textContent = `${completedPercent}%`;
```

- Calculates how much of the year has passed since your last birthday (in %).
- Example: If it says 70%, it means 70% of the year is completed from your birthday to the next one.

2. Function: copyToClipboard()

```
const ageText = document.getElementById("age-result").textContent + '\n' + document.getElementById("age-months-result").textContent;
navigator.clipboard.writeText(ageText);
alert("Copied to clipboard!");
```

- Combines the age in words and months.
- Copies that text to your clipboard.
- Shows alert: Copied to clipboard!"

3. Dark Mode Toggle Button

```
const toggleBtn = document.getElementById('toggleTheme');
const body = document.body;

toggleBtn.addEventListener('click', () => {
  body.classList.toggle('dark-mode');
}
```

- When you **click the moon or sun emoji**, it adds or removes the dark-mode class to the body.
- This changes the theme.

```
if (body.classList.contains('dark-mode')) {
  toggleBtn.textContent = "; // Light mode emoji
} else {
  toggleBtn.textContent = "; // Dark mode emoji
}
```

• Switches the emoji to for light mode or for dark mode.