

# Web Technologies Summary

## 1. prompt() Function (JavaScript)

Used to take user input as a string via a pop-up.

Example:

```
let name = prompt("Enter your name:");
```

## 2. alert() Function

Used to display output or messages in a pop-up box.

Example:

```
alert("Added to Cart...");
```

## 3. confirm() Function

Used to get a Yes/No (true/false) response from the user.

Example:

```
let result = confirm("Do you want to add another number?");
```

## 4. onclick Event Handler

Executes a function or command when an element (like button) is clicked.

Example:

```
<button onclick="displayDate()">Click Me</button>
```

## 5. Forms and Validation

Creating forms for user registration using various inputs:

- Text fields, password fields, email, phone number
- Radio buttons (e.g., Gender)
- Checkboxes (e.g., Languages)

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- Select boxes (e.g., Date of Birth)

JavaScript validation using regex and logic for:

- Name (only alphabets, min length)
- Password (min length)
- Email format
- Phone (exact 10 digits)
- Non-empty fields like address

## 6. Frames in HTML

Used to divide a webpage into multiple sections (frames).

Example used:

```
<frameset rows="20%,60%,20%">
```

```
<frame src="header.html">
```

```
<frame src="welcome.html">
```

```
<frame src="footer.html">
```

```
</frameset>
```

- header.html for navigation/links
- welcome.html for intro
- footer.html for footer text

## 7. JavaScript DOM Manipulation

Using `document.getElementById()` to get or update content dynamically.

Example:

```
document.getElementById("errname").innerHTML = "Required";
```

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## 8. Styling and Animation using CSS

Styling with font-family, text-align, padding, animation, etc.

Created animated heading using:

```
@keyframes moveScaleFade {  
  
0% { transform: translateY(-50px); opacity: 0; }  
  
25% { transform: translateY(0); opacity: 1; }  
  
}
```

## 9. Dynamic Book Catalogue

Displayed books in a table format with:

- Cover image
- Book Name
- Author
- Publisher
- Price
- "Add to Cart" buttons