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SECTION: 11 - LINNAUES

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JAVASCRIPT CONDITIONAL STATEMENTS WITH FORM VALIDATION

Subject: ICT / Programming

Grade Level: Grade 11

Time Allotment: 1.5 Hours

I. Learning Objectives

- Identify and use if, if-else, and if-else-if statements
- Create HTML forms to collect user input
- Apply JavaScript form validation
- Display appropriate output based on conditions

II. Materials Needed

- Computer or laptop
- Text editor (VS Code / Notepad)
- Web browser

III. General Instructions

Follow each step carefully. Type the codes exactly as shown. Save your files frequently and test them using a web browser.

IV. Activity 1: if Statement – Voting Eligibility Checker

Objective: Use an if statement with form validation to determine voting eligibility.

Step 1: HTML Form

Create a file named if.html and type the following code:

```
<!DOCTYPE html>
<html>
<head>
    <title>Voting Eligibility</title>
</head>
<body>
    <h3>Voting Eligibility Checker</h3>

    <form>
        Enter your age:
        <input type="number" id="age">
        <button type="button" onclick="checkAge()">Check</button>
    </form>

    <p id="result"></p>

<script src="if.js"></script>
```

```
</body>
</html>
```

Step 2: JavaScript with Validation

Create a file named if.js and type:

```
function checkAge() {
    let age = document.getElementById("age").value;

    if (age === "") {
        document.getElementById("result").innerHTML =
        "Please enter your age.";
    } else if (age >= 18) {
        document.getElementById("result").innerHTML =
        "You are eligible to vote.";
    } else {
        document.getElementById("result").innerHTML =
        "You are not eligible to vote.";
    }
}
```

Guide Question: What happens if the input field is empty?

V. Activity 2: if-else Statement – Password Verification

Objective: Use if-else statement to validate password input.

HTML Code

```
<form>
    Enter Password:
    <input type="password" id="password">
    <button type="button" onclick="checkPassword()">Login</button>
</form>

<p id="message"></p>
```

JavaScript Code

```
function checkPassword() {
    let password =
```

```
document.getElementById("password").value;

if (password === "") {
    document.getElementById("message").innerHTML =
    "Password cannot be empty.";
} else if (password === "admin123") {
    document.getElementById("message").innerHTML =
    "Access Granted";
} else {
    document.getElementById("message").innerHTML =
    "Access Denied";
}
}
```

VI. Activity 3: if-else-if Statement – Grade Evaluation

Objective: Use if-else-if statement with range validation.

```
function evaluateGrade() {
    let grade =
        document.getElementById("grade").value;

    if (grade === "") {
        output.innerHTML = "Please enter a grade.";
    } else if (grade < 0 || grade > 100) {
        output.innerHTML =
            "Grade must be between 0 and 100.";
    } else if (grade >= 90) {
        output.innerHTML = "Outstanding";
    } else if (grade >= 80) {
        output.innerHTML = "Very Satisfactory";
    } else if (grade >= 75) {
        output.innerHTML = "Satisfactory";
    } else {
        output.innerHTML =
            "Did Not Meet Expectations";
    }
}
```

VII. Assessment Questions

- ### 1. What is the purpose of form validation?

- ## 2. When should if-else-if be used?

- ### 3. Why is input checking important in programming?

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VIII. Reflection

What did you learn about conditional statements and validation?