

INTERNET BASED PROGRAMMING – 29TH APRIL 2025.

JavaScript Conditional Logic – Student Questions.

1. Capturing Student Marks and Grading

Question:

Create a JavaScript program that asks a user to enter marks for 3 subjects using `prompt()`.

- Calculate the **total** and **average**.
- Display the **grade** using an `alert()` box.

Grading Criteria:

- Average ≥ 70 : Grade A
- Average ≥ 60 : Grade B
- Average ≥ 50 : Grade C
- Average ≥ 40 : Grade D
- Below 40: Grade E

2. Salary and SHA Deductions

Question:

Ask the user to enter their **monthly salary** using `prompt()`.

- Calculate **SHA deduction** at 5% of the salary.
- Use conditional statements to classify the person:
 - Salary $\geq 100,000$: "Rich"
 - Salary between 50,000–99,999: "Middle Class"
 - Below 50,000: "Poor"

Display the result in an `alert()` box showing:

- Gross Salary
- SHA Deduction
- Net Salary
- Category (Rich, Middle Class, Poor)

Expected Skills Tested:

- Prompt input
- Arithmetic operations
- `if, else if, else` usage

- Alert box display formatting

3. BMI (Body Mass Index) Calculator

Question:

Create a JavaScript program that:

- Asks for the user's **weight in kg** and **height in meters**.
- Calculates BMI using the formula:

```
BMI = weight / (height * height);
```

- Based on the BMI value, give a classification using `if-else if`:

Classification:

- BMI < 18.5: "Underweight"
- BMI 18.5 to 24.9: "Normal weight"
- BMI 25 to 29.9: "Overweight"
- BMI \geq 30: "Obese"

Display a message using an `alert()` box with:

- BMI value and health category.